

CATALOGUE OF PRODUCTS

SELECTED RANGE



Sealing Solutions for
Rotating Equipment



Sealing Solutions for
Static Equipment



Sealing Solutions for
Fluid Power



Industrial Lubricants
and MRO Chemicals



Composite Coatings

PROVIDING VALUE TO INDUSTRY SINCE 1884

A.W. Chesterton Company is a leading international manufacturer and distributor of five distinct product lines. Each product line is positioned to provide value-driven solutions to meet industry needs.

Since 1884 we have worked closely with our customers to provide solutions that help them operate more reliably, efficiently, and economically.

A.W. Chesterton Company is ISO 9001/14001 and MRP II Class-A certified.

Chesterton in Europe, The Middle East, and Africa

Chesterton has been using high performance materials, formulations, and designs to solve your toughest industrial applications to provide value-driven solutions with documented success and recognition across Europe, The Middle East, and Africa.

Local Service

The expertise of your local Chesterton Technical Specialist combined with the support of our engineering staff will enable you to enjoy significantly reduced operating costs, increased reliability, and years of trouble-free service.

This catalogue provides you with an overview of the products and services that Chesterton offers in Europe, The Middle East, and Africa. For more information about our full range of products and services, visit our web site at www.chesterton.com.





- Service and Sales Locations
- Sales and Certified Service/Repair
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Meet your plant's performance objectives with Chesterton®

Depend on Chesterton to provide high performance solutions that meet the needs of your facility. Our knowledgeable and experienced specialists and application engineers can help you meet your asset management objectives.

We have a comprehensive line of mechanical seals, packing, coatings, cleaners, lubricants and polymeric seals designed to maximize performance.

The world of tomorrow is created today.

That's why we build solutions that increase energy efficiency, improve reliability, and protect our environment.

For more information go to www.chesterton.com



SERVICE AND PERFORMANCE

Unparalleled in the Industry

At Chesterton, we place strong emphasis on working together as partners to provide real solutions. Our high service levels are delivered by combining both industry and product knowledge with experience to implement Best Available Techniques. Our wide geographical reach and local service capabilities enable us to be responsive to your needs.

Reliability Through Innovation

To be a full service provider takes a wide array of high quality, engineered sealing products that address your needs. Innovative, high performance products are the core of Chesterton's offerings as a premier sealing solution provider. Some of our standard offerings are:

- Split Seals
- Cartridge Seals
- Gas Seals
- Component Seals
- Pump Packing
- Bearing and Gearbox Protection
- Rotary Seals
- SpiralTrac™

Improving Productivity with High Impact Programs

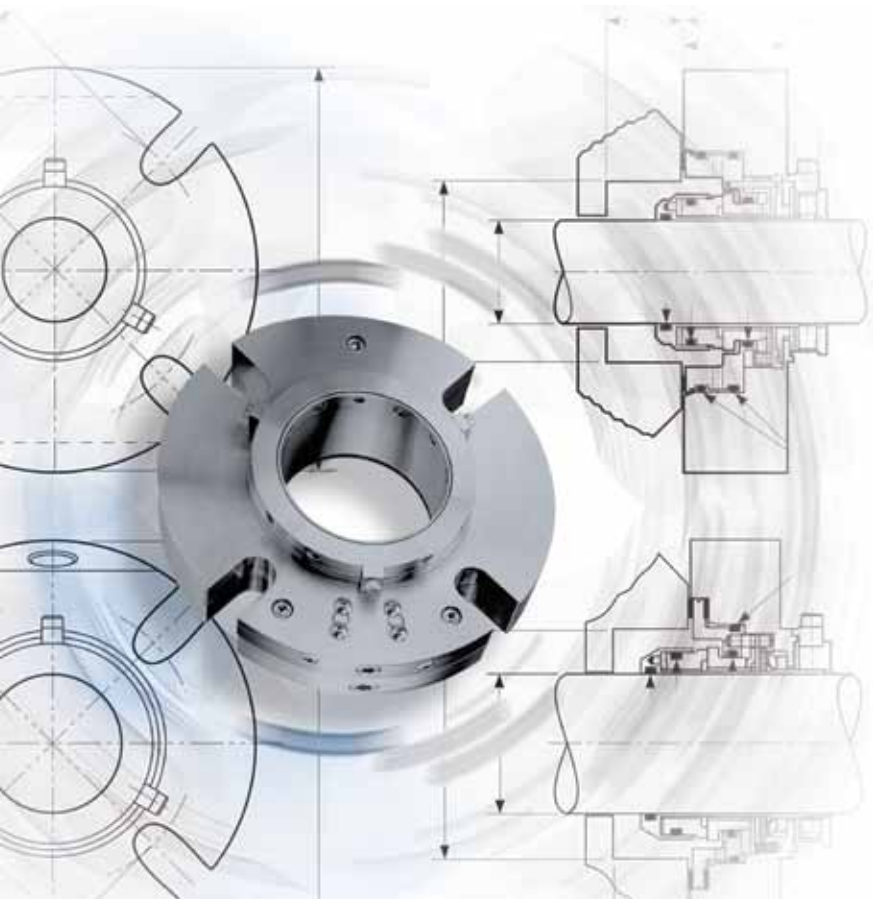
In today's global economy, our clients are faced with increased profitability pressures. Chesterton can assist users in achieving their productivity goals by improving asset reliability and lowering the total cost of ownership. Our programs are easily customized for each plant to:

- Improve equipment availability
- Increase process throughput
- Lower total cost of ownership

Delivering Results for Industry

Meeting industry needs requires a thorough knowledge and understanding of the key drivers specific to a plant. Chesterton's depth of experience allows us to deliver results such as:

- Increased equipment reliability
- Reduced water consumption
- Reduced environmental emissions
- Increased energy efficiency



Mechanical Seals Application Guide

Please contact your local Chesterton Representative to help you select the best product for your application.

Family	Model	Equipment Types	Fit			Duty					
			ISO-3069-S	ISO-3069-C	EN-12756	Light Duty	Large Equipment	Solids	Crystallizing Media	Emissions Control	Corrosive Media
Split Seals Why disassemble the equipment? Chesterton's split mechanical seals offer a reliable sealing solution—reducing maintenance costs for larger equipment that is difficult and time consuming to disassemble.	442	Pumps	✓								
		Agitators				✓+	✓++	✓+*	✓		✓
		Mixers									
	442M	Agitators Mixers					✓++	✓+*	✓		✓
	442PR	Boiler Feed Pumps	✓				✓++	✓			✓
Cassette Seals All the wearing parts are contained in a single, replaceable cassette unit. Single and dual cassettes share a common universal gland. Repair becomes a matter of exchanging cassettes, making it faster and easier while significantly reducing costs associated with repair.	S10	Pumps	✓	✓		✓+	✓	✓	✓+	✓+	✓++
	S20	Pumps	✓	✓			✓	✓+	✓+	✓++	✓+
Cartridge Seals Cartridge Seals have been designed to be rugged performers in sealing applications across industry segments. They are proven performers for plant-wide standardization, providing maximum reliability.	150	Pumps	✓	✓		✓++	✓	✓	✓		✓
	250	Pumps	✓	✓			✓	✓	✓+	✓	✓
	280	Pumps Reactors	✓	✓			✓+	✓+	✓++	✓	✓+
	170	Pumps		✓			✓+	✓++	✓+		✓+
Gas Seals Chesterton gas seal technology overcomes performance limitations common to dual liquid cartridge seals. Reach your plant reliability goals with the addition of simple gas seal technology.	4400	Pumps		✓				✓+	✓	✓++	✓+
Component Seals Fits all DIN, ISO, ANSI, and other popular pumps; no shaft sleeve wear; self-aligning capability. All wearing parts, seal faces, O-rings, screws, and springs are replaceable at low cost.	491	Pumps	✓		✓						
		Agitators				✓++	✓	✓+	✓+		✓
	RBS	Pumps	✓		✓	✓+		✓			

*Solids handling capability enhanced by use of SpiralTrac™ split environmental controller

✓++ = Best Choice

✓+ = Better Choice

✓ = Good Choice










Pump Packing Application Guide

Please contact your local Chesterton Representative to help you select the best product for your application.

Family	Product	Media				Duty			Key Benefit			Equipment					
		Water	Steam	Chemicals	Slurries	High Temperatures	High Pressures	High Speeds	Reliability	Economy Solution	Emissions	Control Valves	Block Valves	Motor Operated Valves	Pipe Flanges	Heat Exchangers	Housings
Pump Packing	1730	√++		√+	√++	√+	√++	√	√++	√+							
	1760	√++		√++	√+	√+	√++	√++	√++	√+							
	1765	√++		√++	√	√+	√+	√+	√++	√+							
	1830	√++		√++	√+	√+	√+	√++	√+	√++							
	1830-SSP	√++		√++	√++	√+	√+	√++	√+	√+							
	1400R	√++	√++	√++	√	√++	√+	√++	√++	√+	√+	√+	√++				
Environmental Enhancers	SuperSet™				√++				√++								

√++ = Best Choice √+ = Better Choice √ = Good Choice

Application Guide for Bearing Protection and Rotary Seals

Speed	Types	Product	Profile Series	Description	Attributes			Friction			Wear Resistance		
					mold	**mach	split	Low	Mid	High	Low	Mid	High
Rotary Applications													
to 20 m/s (4 000 ft/min)	Restriction Bushing	14K		Restriction bushing for rotary equipment		•	•	•				•	
	Continuous Rotary Lip Seals	30K		Single acting, low pressure seal for bearing and gearbox protection		•			•			•	
Bearing and Gearbox Protection													
to 12,5 m/s (2 500 ft/min)	Split Rotary Lip Seals	33K		Single acting, non-pressure split seal for bearing and gearbox protection		•	•	•				•	
to 20 m/s (4 000 ft/min)	Continuous Rotary Excluder	50K		Single acting rotary face excluder	•				•			•	
to 25 m/s (5 000 ft/min)	Continuous/Split Rotary Lip Seal	51K		Single acting, low pressure seal for bearing and gearbox protection	•		•		•			•	
	Continuous Rotary Lip Seal	52K		Single acting, low pressure seal for bearing and gearbox protection	•				•			•	
to 35 m/s (7 000 ft/min)	Continuous Rotary Lip Seal	53K		Single acting, low pressure seal for bearing and gearbox protection	•				•			•	
to 1 m/s (200 ft/min)	Wipers	W21K		Positive angled profile with flange, slow rotary	•	•	•	•				•	
	Rod and Piston Seals	R22KN5		Single acting, positive angled profile, slow rotary	•	•	•			•		•	

**Machined product does not require tooling.

442™ C

Cartridge Split Mechanical Seal

New Technology for 2014!

The 442™ C Cartridge Split Mechanical Seal is the latest innovation in split seal technology combining superior performance with the ease of installation of a cartridge split seal.

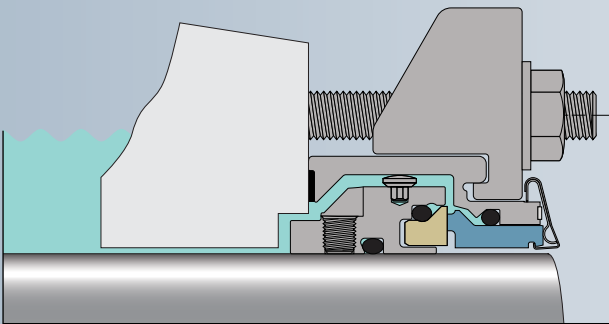


Operating Conditions		Materials	
Sizes	20 mm to 610 mm*	Faces	CB, CER, RSC
Pressure	711 mm Hg Vacuum to 31 bar g	Elastomers	FKM, EPDM, FEPM
Temperature	120°C	Metals	1.4401 (316SS)
Speed	20 m/s	Springs	Elgiloy™

ATEX Category I, Group 2 Approved, Fits ISO-3069, ACS Approved

*Available as 442C 20 mm to 120 mm beginning second quarter 2014.

- Simple cartridge installation – without equipment disassembly
- Innovative design with superior performance
- Fits majority of rotating equipment
- Easy field repair



Support Products



442M

Split Mixer Seal

The mixer version of the standard split seal that accommodates large radial and axial shaft motion associated with mixers, agitators, reactors, and blenders.



442PR

Split Pumping Ring Seal

The high capacity pumping ring provides for maximum heat removal and reliability in hot water services such as heater drain and boiler feed pumps.

SpiralTrac™

Environmental Controllers

Sealing Solutions
for Rotating Equipment

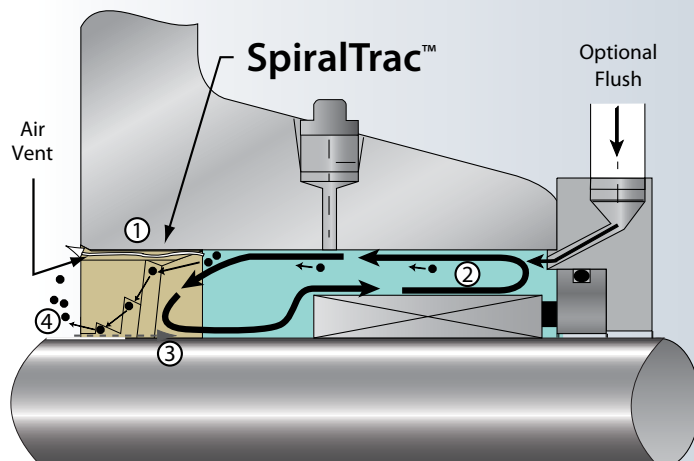
When used with Chesterton® mechanical seals, SpiralTrac™ Environmental Controllers greatly enhance seal reliability by effective removal of solids and improved cooling of the stuffing box



Versions	
F (Split)	Greatly reduced flush
N	Reduced/No flush in no fibrous fluids
D	Reduced/No flush in fibrous fluids
P (Split)	Packing version
C	With drain for crystallizing media

Available Materials
1.4401 (316SS)
416 SS
PTFE – Glass Filled
PTFE – Carbon Graphite Filled
Bronze
Ti/EN 3.7035
AWC800 – Red Polymer
Monel K400 / EN 2.4360

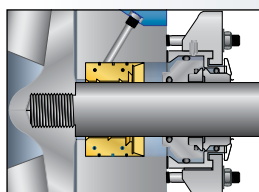
- Extends seal reliability in most rotating equipment applications
- Reduces cost of flushing in abrasive applications
- Fits all rotating equipment



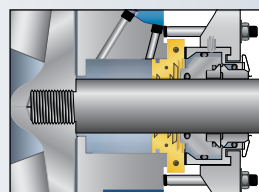
- 1 Air**
Vented from cavity when pump is stationary (eliminates crystallization, coking overheating due to air)
- 2 Circulation**
Driven around seal (excellent face cooling)
- 3 Exchange**
In and out of cavity (heat removed from cavity)
- 4 Particulate**
Immediately removed from cavity through the exit groove, flush or no flush

Configurations Available

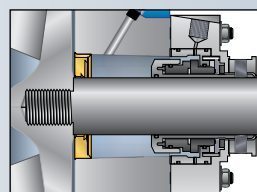
Split



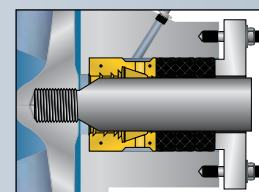
Adapter



Standard



Packing

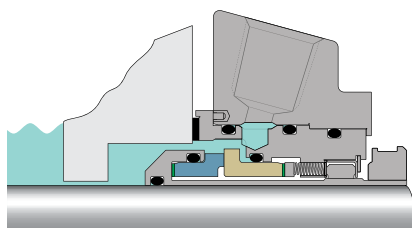


MECHANICAL SEALS

S10

High Performance Single Cassette Seal

A unique modular cassette that combines advanced seal technology with flexibility in maintenance and repair



Operating Conditions		Materials	
Sizes	25 mm to 120 mm	Faces	CB, SSC, TC
Pressure	Vacuum to 31 bar g	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	25 m/s	Springs	2.4819 (Alloy C-276)

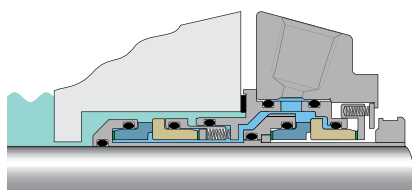
Fits ISO-3069, ASME B73.1, B73.2

- High performance sealing
- One optimized sealing concept for plant-wide standardization
- Easy to maintain

S20

High Performance Dual Cassette Seal

A unique modular cassette that combines advanced seal technology with flexibility in maintenance and repair



Operating Conditions		Materials	
Sizes	25 mm to 120 mm	Faces	CB, SSC, TC
Pressure	Vacuum to 31 bar g, 17 bar g inboard differential	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	25 m/s	Springs	2.4819 (Alloy C-276)

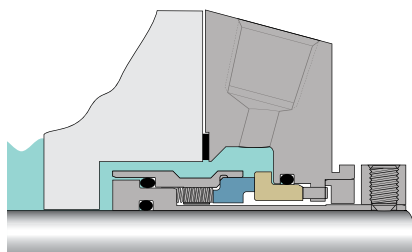
Fits ISO-3069, ASME B73.1, B73.2

- Advanced sealing performance
- One optimized sealing concept for plant-wide standardization
- Easy to maintain

150

General Purpose Cartridge Single Seal

Designed for baseline applications and for upgrading packed or component-sealed equipment—this seal is a value leader in its class



Operating Conditions		Materials	
Sizes	25 mm to 120 mm	Faces	CB, SSC
Pressure	Vacuum to 20 bar g	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	20 m/s	Springs	2.4819 (Alloy C-276)

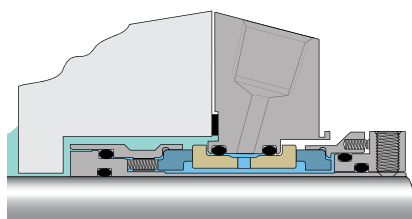
Fits ISO-3069, ASME B73.1, B73.2, ACS Approved

- Simple upgrade to reduce plant maintenance costs
- Reliable cartridge design that increases seal life

250

General Purpose Cartridge Dual Seal

Designed for cost-effective upgrading from packing and under performing single seals—this seal is a value leader in its class, further increasing plant reliability



Operating Conditions		Materials	
Sizes	25 mm to 120 mm	Faces	CB, SSC
Pressure	Vacuum to 20 bar g, 10 bar g outboard	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	20 m/s	Springs	2.4819 (Alloy C-276)

Fits ISO-3069, ASME B73.1, B73.2

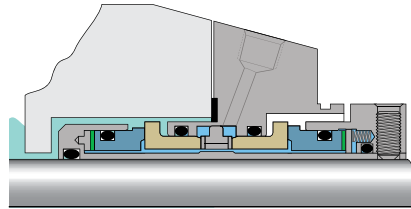
- Provides sealing security that conventional single seals cannot match
- Reliable cartridge design that increases seal life

SEALING SOLUTIONS FOR ROTATING EQUIPMENT

280™

Heavy Duty Cartridge Dual Seal

*A dual seal design for severe duty and greatest reliability in difficult applications—including mixers and agitators**



Operating Conditions		Materials	
Sizes	25 mm to 120 mm	Faces	CB, SSC, TC
Pressure	Vacuum to 40 bar g, 17 bar g outboard	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	25 m/s	Springs	2.4819 (Alloy C-276)

Fits ISO-3069, ASME B73.1, B73.2, ATEX Category I, Group 2 Approved

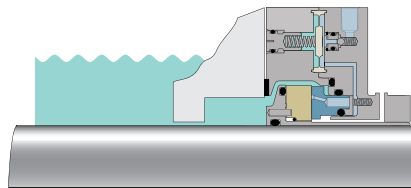
*Extended motion capability available in 280M version

- High-reliability sealing
- Maximum solids handling capability
- Superior performance for demanding applications
- Motion tolerant for mixer applications*

4400

Gas Seal

Advanced technology made simple in a gas seal design. The 4400 is a seal for all purposes, and provides for an easy gas seal upgrade option. It is an ideal choice for upgrading under-performing, liquid lubricated seals to high performance, non-contacting operation.



Operating Conditions		Materials	
Sizes	25 mm to 90 mm	Faces	CB, SSC
Pressure	Vacuum to 20 bar g	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	25 m/s	Springs	2.4819 (Alloy C-276)

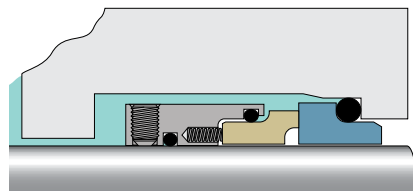
Fits ISO-3069-C

- Delivers low cost-of-ownership for a broad range of applications
- Advanced technology that is easy to install and operate
- Exclusive In-Gland Control System eliminates the need and expense of an external gas panel

491

DIN Rotary Pusher Seal

Designed for the replacement of low technology component seals, resulting in overall reliability increase and maintenance efficiency



Operating Conditions		Materials	
Sizes	16 mm to 110 mm	Faces	CB, SSC
Pressure	Vacuum to 10 bar g	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)
Speed	20 m/s	Springs	2.4819 (Alloy C-276)

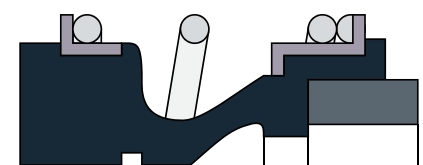
Fits EN12756, ISO-3069-S, ATEX Category I, Group 2 Approved

- Reliable upgrade from original equipment seals
- Designed not to fret shaft or sleeves
- Fits EN12756 L1K with standard supplied DIN stationary

RBS

Single Component Seal for General Purpose Sealing

With proven Chesterton® quality, the RBS seal is the ideal choice for sealing small pumps where axial space is limited. Designed with a robust friction drive and large spring format, the RBS provides reliable sealing for a large range of fluids.

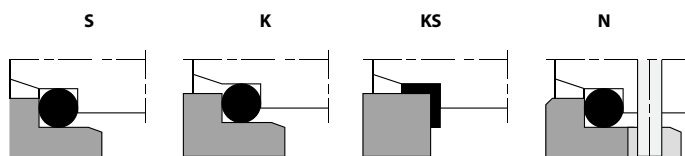


Operating Conditions		Materials	
Sizes	10 mm to 60 mm	Faces	CB, SSC
Pressure	12 bar g	O-rings	FKM, EPDM
Temperature	-15°C to 200°C	Springs	1.4301 (304SS)
Speed	10 m/s	Bellows	EPDM, FKM

Fits EN12756, ISO-3069-S

- Bidirectional seal with short axial length—fits most small pumps
- Robust frictional drive makes seal tolerant to unfavorable conditions
- Versatile enough to meet the needs of many applications
- Features a large spring that does not clog—suitable for media containing solids

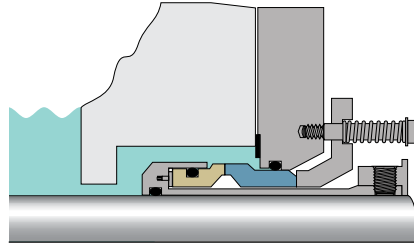
Stationary Seats



170

Slurry Cartridge Single Seal

Engineered to operate in harsh, heavy consistency slurry environments and to eliminate costly external seal flushes in the majority of applications



Operating Conditions		Materials	
Sizes	25 mm to 228 mm	Faces	SSC, TC
Pressure	Vacuum to 17 bar g	Elastomers	FKM, EPDM, FEPM, ChemLast™
Temperature	-55°C to 300°C	Metals	1.4401 (316SS)*
Speed	11 m/s	Springs	2.4819 (Alloy C-276)

*Duplex stainless steel available as option

- Runs longer in heavy abrasive slurries without the need for flush or quench water
- Reliable design that deals with real life slurry pumping conditions
- Easy to maintain

Intelli-Flow™ HT

Water Saver

Features a thermally activated valve that automatically drains hot barrier fluid (only when necessary) to keep dual seals running cool and reliable. Valve opening temperature preset to work with S20 Seals.

Operating Conditions	
Pressure	20 bar g
Temperature	125°C
Temperature set point	80°C
Connections	1/4 NPT
Materials	1.4401 (316SS)



- Clean in place
- Maintenance-free
- Easy to install
- 95% water savings compared to open barrier fluid supply



**Designed to perform in
the harshest environments...**

Chesterton's NEW flushless 170 slurry seal and proven high strength mechanical packing and SuperSets™ can be combined for plant-wide sealing.

Our experienced specialists can consult with you and have the unique ability selecting from the best available technologies to fit your specific needs. Chesterton's high performance mechanical packing combined with advanced mechanical seal technologies can deliver increased meantime between failure and an overall reduction in your plant sealing costs.



Chesterton delivers an unbeatable combination of sealing knowledge and innovative high performance products to the power industry.

For more information go to www.chesterton.com/slurry



PLANTWIDE PACKING

1730

General Service Packing

Durable performance packing that is easy to install and will not score shafts

Technical Data

Materials	Thermoset fibres with lubricants and blocking agents		
Applications	Water Pumps, Paper Stock Pumps, Slurries, Agitators, Mixers		
Available Sizes	6 mm to 25,4 mm (1/4" to 1")		
Pressure	28 bar g	Temperature	290°C
Speed	10 m/s	pH	1 to 13

Applicable Standards and Approvals: BAM



- Easy and fast break in
- Abrasion resistant, while non-scoring
- Good chemical resistance
- Good temperature resistance

1760

Chemical Packing

Strong and dense PTFE fibre packing for chemical applications with the heat dissipating properties of graphite

Technical Data

Materials	Graphite coated PTFE yarn with break in lubricants		
Applications	Black Liquor Pumps, Chemical Pumps, Agitators		
Available Sizes	3,2 mm to 25,4 mm (1/8" to 1")		
Pressure	17 bar g	Temperature	260°C
Speed	18 m/s	pH	0 to 14



- Dense braid ensures excellent leakage control and prevents solid embedment
- Excellent chemical resistance
- High shaft speed

1765

White Chemical Packing

Non-staining chemical packing, ideally suited for bleach pumps and other rotary applications

Technical Data

Materials	White expanded PTFE yarn with a special filler		
Applications	Bleach pumps, chemical pumps, agitators		
Available Sizes	6,4 mm to 25,4 mm (1/4" to 1")		
Pressure	20 bar g	Temperature	Min -40°C, Max 260°C
Speed	10 m/s	pH	0 to 14 except for Fluorine (F ₂), ClF ₃ and related compounds, and molten alkali metals



- Non-staining
- Superior chemical resistance
- Low friction for improved speed capability
- Longer packing life

1830

Advanced Expanded Graphite PTFE Packing

Economical packing developed to meet strict specifications in pumps, agitators, mixers, and other rotating equipment

Technical Data

Materials	Expanded graphite PTFE filaments		
Applications	Wide range of applications	Temperature	260°C
Speed	18 m/s	pH	0 to 14 with exception of strong oxidizers in the 0 to 2 pH range

Applicable Standards and Approvals: BAM



- Excellent chemical resistance
- Low friction, less heat generation and non-abrasiveness saves shafts and shaft sleeves
- Easy installation and removal
- Low leakage and long life

1400R

Carbon Reinforced Graphite Packing

Combines the unique sealing properties of flexible graphite with the high strength of carbon fibre

Technical Data

Materials	Carbon fibre reinforced flexible graphite packing		
Applications	Process Pumps, Boiler Feed Pumps, Block Valves, Refiners, Agitators, Mixers		
Available Sizes	3,2 mm to 25,4 mm (1/8" to 1")		
Pressure	14 bar g (rotating applications) 275 bar g (valves)	Temperature	Min -240°C Max 650°C (steam) Max 455°C (oxidizing atmosphere)
Speed	20 m/s	pH	0 to 14 except oleum, fuming nitric acid, and aqua regia

Applicable Standards and Approvals: BAM



- Flushless packing
- High shaft speed capability
- Passive molybdate corrosion inhibitor
- For use in valves and pumps

1830-SSP

Slurry Packing

Designed with a hybrid yarn combining advanced, expanded graphite PTFE yarn with carbon yarn reinforcement

Technical Data

Materials	Carbon reinforced expanded graphite PTFE		
Applications	Slurry Pumps, Mineral Handling Slurries, Tailing Pumps		
Available Sizes	9,5 mm to 25,4 mm (3/8" to 1")		
Pressure	28 bar g	Temperature	260°C
Speed	18 m/s	pH	0 to 14 with exception of strong oxidizers in the 0-2 pH range



- Developed to meet rigid demands of slurry sealing applications
- Excellent chemical resistance
- Low friction, less heat generation, non-abrasive, saves shafts and shaft sleeves

SuperSet™

Enhanced Packing Sets

Chesterton® performance packing sets, in combination with the patented SpiralTrac™ Environmental Controller, reduce flush water consumption and increase equipment service life

Versions	Applications
1730 SuperSet	General service in slurries and clean fluids
1400R SuperSet	Worn equipment, high speed and high temperature applications
1760 SuperSet	Highly aggressive chemical environments



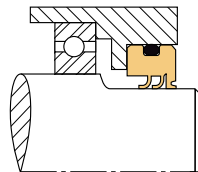
- Reduces flush water consumption
- Increases equipment MTBR
- Reduces shaft sleeve wear

BEARING AND GEARBOX PROTECTION

30K

Bearing and Gearbox Protection

Advanced sealing protection technology keeps the lubricant in and the dirt out for long-term sealing



SPECIFICATIONS

Material (combination) (adapters/sealer rings)	Size Range* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure MPa (psi)	Recommended use	Mating surface (Rockwell C)
AWC100 (PTFE) Polyimide	20 to 600 (0,787 to 24)	-20 to 149 (-30 to 300)	Up to 20 (4 000)	0,07 (10)	Excellent dry Excellent low viscosity No water and steam	≥45
AWC300 (PTFE) Molybdenum & glass					Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite					Excellent in water Good dry and low viscosity	≥55
AWC510 (PTFE) Mineral (FDA listed)					Excellent dry Good in water and steam No petroleum liquids	≥45

Performance depends on concurrent conditions including shaft hardness, shaft surface roughness, material, lubrication, temperature, and pressure.

PRODUCT PROFILES:

Applicable standards: ISO3760/ISO3761



30K



30KW



30KSW



30KB



30KBW

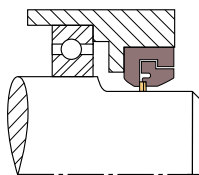


- New designs and materials to outperform conventional lip seals
- High performance PTFE compounds offers advanced wear and abrasion resistance
- Unique design provides lower friction and decreased shaft wear
- High performance lip seals prevent contaminants from entering housing

33K

Split Bearing and Gearbox Protection

Unitized split seal for bearing and gearbox protection



SPECIFICATIONS

Material (adapters/sealer rings)	Size Range* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure MPa (psi)	Recommended use	Mating surface (Rockwell C)
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AWC800 Adapters (EU)

AWC100 (PTFE) Polyimide	25 to 610 (1 to 24)	85 (185)	12,7 (2 500)	0,007 (1)	Excellent dry Excellent low viscosity	≥45
AWC300 (PTFE) Molybdenum & glass	25 to 610 (1 to 24)	85 (185)	12,7 (2 500)	0,007 (1)	Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite	25 to 610 (1 to 24)	85 (185)	12,7 (2 500)	0,007 (1)	Excellent in water Good dry and low viscosity	≥55

AWC860 Adapters (EU)

AWC100 (PTFE) Polyimide	25 to 457 (1 to 18)	121 (250)	12,7 (2 500)	0,07 (1)	Excellent dry Excellent low viscosity	≥45
AWC300 (PTFE) Molybdenum & glass	25 to 457 (1 to 18)	121 (250)	12,7 (2 500)	0,07 (1)	Excellent high viscosity Good dry and good in water	≥55
AWC400 (PTFE) Carbon & graphite	25 to 457 (1 to 18)	121 (250)	12,7 (2 500)	0,07 (1)	Excellent in water Good dry and low viscosity	≥55

Performance depends on concurrent conditions including shaft hardness, shaft surface roughness, material, lubrication, temperature, and pressure.

Applicable standards: ISO3760/ISO3761

*Please contact your Chesterton representative for larger sizes

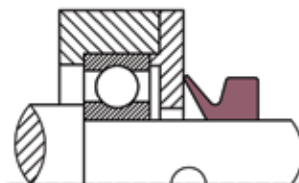


- Split design eliminates the need for equipment disassembly
- New design and materials proven to outperform conventional lip seals
- Patented design combines high performance PTFE and polymer materials
- Filled PTFE materials provide high wear and abrasion resistance

50K

Mill Rotary Face Seal

Designed to protect against ingress of solid particles, dust, and fluids while sealing lubricants in rotary applications



OPERATIONAL CONDITIONS

Material	NBR70	FKM 70
Lubricating greases	-20°C/100°C	-20°C/150°C
Water	5°C/100°C	5°C/80°C
Surface speed (m/sec)	12 m/sec*	20 m/sec*
Technical pressure (Mpa)	0,03	0,03
Size range mm (inch)** shaft dia	200 to 1 650 (8 to 65)	200 to 1 650 (8 to 65)

* At over 8 m/s the seal has to be supported in axial direction while over 12 m/s radial retention is needed.

** Please contact your Chesterton representative for other sizes.

PRODUCT PROFILES:

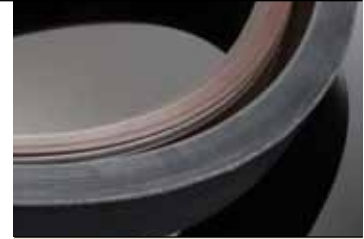


- High performance elastomer materials
- Long elastic memory and good resistance to aging
- Optimized lip interference with low friction
- Direct retrofit, no equipment modifications required

51K

Mill Rotary Seal

Designed to provide long lasting sealing and superior protection for rotary applications, bearing houses, and gearboxes across the heavy industries

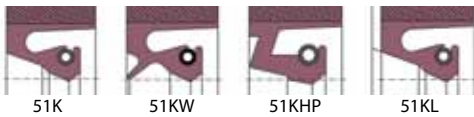


OPERATIONAL CONDITIONS

Elastomers	NBR80+PTFE	HNBR 70	FKM70+PTFE
OD Fabric	Textile +NBR	Textile + HNBR	Textile + FKM
Materials of garter spring	AISI 302-316	AISI 302-316	AISI 302-316
Lubricating greases	-20°C/100°C	-30°C/150°C	-20°C/200°C
Mineral oils	-20°C/100°C	-30°C/150°C	-20°C/200°C
Water	5°C/100°C	5°C/150°C	5°C/100°C
Surface speed (m/sec)	15	20	25
Technical pressure (Mpa) 51K, 51KW, 51KL Solid	0,05	0,05	0,05
Technical pressure (Mpa) 51K, 51KW, 51KL Split	No pressure can be applied	No pressure can be applied	No pressure can be applied
Technical pressure (Mpa) 51HP Solid	0,4	0,4	0,4
Size range mm (inch)** Seal OD	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)

** Please contact your Chesterton representative for other sizes.

PRODUCT PROFILES:



- High resistance to wear
- Specially designed seal lips combined with autolubricated elastomer to reduce friction
- Solid and split versions are available
- Direct retrofit, no equipment modifications required

52K

Mill Rotary Seal

Designed to provide long lasting sealing and superior protection for rotary applications, bearing houses, and gearboxes across the heavy industries. The unique design with flexible stiffener ring ensures improved fitting in the seal cavity and allows installation in stuffing boxes without end covers.



OPERATIONAL CONDITIONS

Elastomers	NBR80+PTFE	FKM70+PTFE
Material of metal case	C72 tempered	C72 tempered
Materials of garter spring*	AISI 302-316	AISI 302-316
Lubricating greases	-30°C/100°C	-20°C/200°C
Mineral oils	-30°C/100°C	-20°C/200°C
Water	5°C/100°C	5°C/100°C
Surface speed (m/sec)	15	25
Technical pressure (Mpa)	0,05	0,05
Size range mm (inch)** Seal OD	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)

PRODUCT PROFILES:



* On request PVC cover to avoid dust entering garter spring

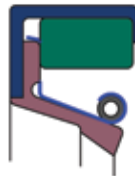
** Please contact your Chesterton representative for other sizes.

- Unique lip design
- Specially designed seal lips combined with auto-lubricated compound to reduce friction
- Metallic flexible stiffening ring is used to allow mounting without end cover
- Direct retrofit, no equipment modifications required

53K

Mill Rotary Seal

Designed to provide long lasting sealing and protective solutions that withstand high speeds and misalignment of large rolls in heavy industries



OPERATIONAL CONDITIONS

Elastomers	NBR70+PTFE	FKM 70+PTFE
Material of metal case	Fe-PO3	Fe-PO3
Material of steel filler ring	Fe37	Fe37
Material of spring carrier	AISI 301	AISI 301
Materials of garter spring	AISI 316	AISI 316
Lubricating greases	-20°C/100°C	-20°C/200°C
Mineral oils	-20°C/100°C	-20°C/200°C
Surface speed (m/sec)	25	25 to 35
Technical pressure (MPa)	0,05	0,05
53K, 53KW, 53KL, 53KHS, 53KLPT		
Technical pressure (MPa) 53KHP	0,1	0,1
Size range mm (inch)** Seal OD	300 to 1 200 (12 to 47)	300 to 1 200 (12 to 47)

** Please contact your Chesterton representative for other sizes.

PRODUCT PROFILES:

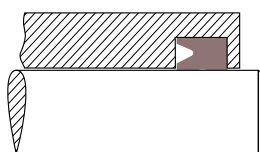


- Unique lip preloaded system with highly elastic garter-finger spring
- Specially designed seal lips combined with auto-lubricated compound to reduce friction
- Large shaft run-out compensation capability
- Maintains lube oil film underneath the lip for longer seal life

R22KN5

Split Rotary Seal

High performance, proven design for slow rotating applications exposed to large shaft run-out



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	103,5 (15 000)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)

PRODUCT PROFILE:



Pending on the seal height and cross section, the split joint can be interlock arrow cutt or butt cut.

*Please contact your Chesterton representative for larger sizes.

- Flexible dynamic lip design for large shaft run-out compensation
- Split configuration simplifies installation
- Robust static lip design allows stack set arrangement and provides stability
- Excellent abrasion-resistance, withstands demanding environments

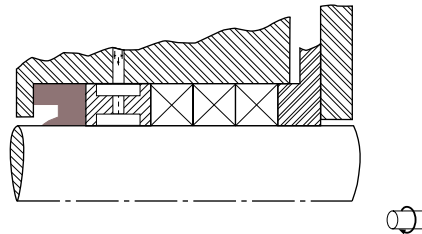
SEALING SOLUTIONS FOR ROTATING EQUIPMENT

ROTARY SEALS

14K

Restriction Bushing

A robust restriction bushing for rotating equipment



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	pH range
AWC520 (PTFE)	25 to 600 (1 to 24)	Up to 200 (400)	0 to 14
AWC800 (EU)	25 to 1 400 (1 to 55)	Up to 100 (185)	4 to 10

Applicable standards: ISO 3069

PRODUCT PROFILES:

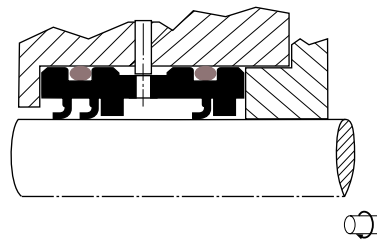


- Split design simplifies installation
- Prevents particles from entering the stuffing box, extending packing and seal life
- Tapered lip design controls fluid bypass
- Designed for pumps and other rotating equipment, such as agitators, mixers, and refiners

30KC

Seal for Viscous Fluids and Powders

High performance, proven cartridge design for sealing powders and viscous fluids



SPECIFICATIONS

Material** (combination) (adapters/sealer rings)	Shaft Size* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure MPa (psi)	Mating surface (Rockwell C)	Surface finish µm Ra (µ inch)	Recommended use***
AWC100 (PTFE) Polyimide					45		Excellent dry Excellent low viscosity (<2 000 cp) Powders, oil, resins, glues, paints No water or steam
AWC300 (PTFE) Molybdenum & glass	25 to 200 (1 to 8)	-20 to 150 (-30 to 300)	Up to 5 (984)	to 1 (150)	55	Dynamic 0,2 to 0,4 (8 to 16) Static 0,4 to 0,8 (16 to 32)	Excellent high viscosity (>2 000 cp) Good in dry, water or steam
AWC400 (PTFE) Carbon & graphite					55		Excellent in water or steam Good dry and low viscosity Powders, asphalt, clay, slurries
AWC510 Mineral (FDA listed)					45		Excellent dry Good in water or steam Chocolate and syrups No petroleum liquids



- Outperforms conventional packing, sealing viscosity fluids, and dry powders
- Decreases downtime, easy-to-install, versatile cartridge design
- Improves performance of compression packing, distinct PTFE materials
- Custom-designed cartridges made to equipment dimensions

* Please contact your Chesterton representative for larger sizes

** Fluoroelastomer O-rings provided (FDA listed with AWC510)

*** Runout to 0,15 mm (0,05")

Ancillary Products



800 GoldEnd® Tape
Heavy-duty, high-density PTFE sealing tape.
Go to page 56.



785 & 785 FG
High-performance, extreme pressure anti-seize compound.
Go to page 54.



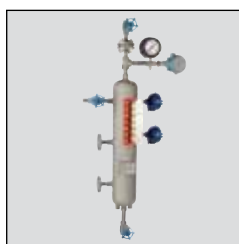
860 - Moldable Polymer Gasketing
Two-part extrudable gasket material for flange and thread sealing.
Go to page 56.



615 HTG
High-performance grease for extreme operating conditions.
Go to page 52.



Lubricant Dispensers
Automatic lubricant dispensers to apply Chesterton greases and oils.
Go to page 53.



662FG Barrier Fluid
This is an ISO grade 22, high performance lubricant designed specifically as a barrier fluid for mechanical seal applications.
Go to www.chesterton.com.

MEET ENVIRONMENTAL AND BUSINESS GOALS

Chesterton® mechanical packings and gaskets enable our customers to meet their goals by offering the right product fit for every application on static equipment.

Value and Performance Programs

There are many different applications in a process plant and across industries. Critical applications need a top quality performance packing, while a standard packing might be fully adequate for less demanding applications.

- High quality performance packing
- Standard packing range
- Solutions for every plant and industry
- Total cost focus

Reliability and Environmental Protection

Live loading for flanges, and valves increase reliability and performance while reducing emissions and leakage by adjusting for system issues that affect packing performance.

Application-Specific Solutions

For some applications a plant-wide packing just won't do and some applications have requirements that need a specially developed solution. Chesterton has developed specific products for various applications in different industries that bring the best performance for that specific piece of equipment and service conditions. Examples are:

- Soot blower solutions for the power industries
- Solutions for solvent dewaxing units in the oil refining industry





Valve Packing and Gaskets Application Guide

Please contact your local Chesterton Representative to help you select the best product for your application.

Family	Product	Media				Duty			Key Benefit			Equipment					
		Water	Steam	Chemicals	Slurries	High Temperatures	High Pressures	High Speeds	Reliability	Economy Solution	Emissions	Control Valves	Block Valves	Motor Operated Valves	Pipe Flanges	Heat Exchangers	Housings
Valve Packings	1600	√++	√++	√++		√++	√++		√++	√+	√+		√++				
	1622	√++	√++	√++			√++		√++	√+	√++		√++				
	1724	√++		√++			√+		√++	√+	√++	√++	√++	√++			
	5800	√++	√++	√++		√++	√+		√++	√+	√++	√++					
	Valve Live Loading								√++		√++	√++	√++	√++			
Flange Sealing	455EU	√++	√	√+		√+	√+		√+	√++	√+				√++		√++
	553	√++	√+	√+		√+	√+		√++	√+	√++				√++		√++
	557	√++	√+	√+		√+	√+		√+	√+	√+				√++		√++
	Duragraf F	√++	√++	√++		√++	√+		√+	√++	√+				√++		√++
	Duragraf T	√++	√++	√++		√++	√+		√+	√++	√+				√++	√+	√++
	ECS-T	√++	√+	√++		√+	√+		√++		√++				√++		√++
	Spiral Wound Gasket SG/SGI/SR/SRIR	√++	√++	√++		√++	√++		√+	√++	√++				√++		
	Camprofile Gasket KG1/KR	√++	√++	√++		√++	√++		√++		√++				√++	√++	
	Steel Trap™ Gasket	√++	√++	√++		√++	√++		√++		√++				√++	√++	√++
	Flange Live Loading		√++			√++	√++		√++		√++				√++	√++	√++

√++ = Best Choice

√+ = Better Choice

√ = Good Choice

LIVE LOADING

Flanges and Heat Exchangers

Increase reliability, lower emissions, and reduce total costs by using tailored sealing solutions for critical flanges

Technical Data	5500	5505L	5505H
Materials	Specialized stainless steel alloy	High strength, high temperature resistant and corrosion resistant stainless steel alloy	Chromium steel with oxide coating
Temperature	-200°C to 300°C	-100°C to 350°C	0°C to 600°C
Corrosion resistance	good	good	average
Applications	Use in combination with Chesterton® Camprofile or Steel Trap™ gaskets on process flanges, heat exchangers, vessels, reactors, valve bonnets, housings, sight glasses		
Warranty	3 year warranty (see flange live loading warranty for conditions)		



Sealing Solutions for Static Equipment

Chesterton® Live Loading System

Chesterton Flange Live Loading increases flange reliability by increasing the elastic energy in the flange assembly. This ensures that a pre-calculated gasket stress is maintained at all times, regardless of pressure fluctuations, gasket thickness loss, or thermal cycles. Chesterton Flange Discs are specially designed for flange applications and maintain their flexibility under extreme mechanical and thermal conditions.

- Shut down to shut down reliability
- Significantly reduces downtime on critical equipment
- Lowers emissions and meets environmental regulations
- Reduces leakage and product loss
- Reduces safety and housekeeping concerns
- Improves plant efficiency and reduces total cost



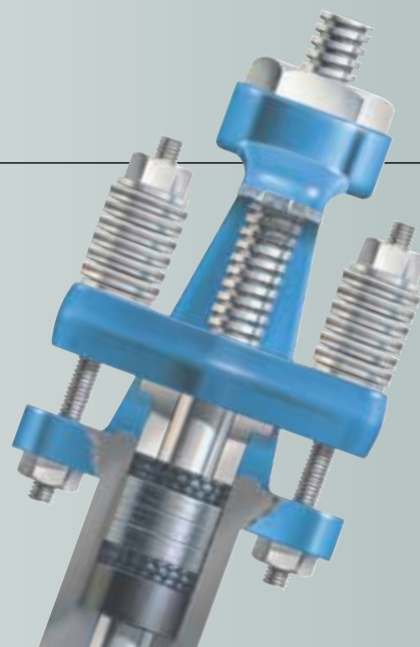


Valves

An engineered sealing system that maintains operability and improves reliability—from shut down to shut down—in compliance with environmental regulations

Technical Data	
Materials	5300 die formed graphite packing with style 1600 Inconel® reinforced braided graphite packing, carbon bushing, live loading spring sets.
Pressure	317 bar g
Temperature	
Maximum	2 760°C in a non-oxidizing atmosphere
	430°C in an oxidizing atmosphere
Minimum	-240°C
pH	0 to 14 with the exception of oleum, fuming nitric acid, aqua regia, fluorine, hydrochloric acid and hydrofluoric acid.
Applications	Block valves and air/motor operated valves in the Power, Petrochemical, Oil Refining, Chemical, and other industries.
Warranty	5 year warranty (see valve emissions warranty for conditions)

Chesterton 5300 and 1600 sealing solutions pass API 589 Fire Test



Sealing Solutions
for Static Equipment

- Improves reliability in critical valves
- Compensates for system pressure upsets, vibrations, and thermal cycling
- Prevents leakage by gland force retention
- Extends MTBR
- Reduces maintenance costs
- Reduced stem friction ensures operability

Components



Other Versions

Chesterton® 1724E Emission and Chemical Live Loading Kits



Our 1724E Live Loading sets combine 1724 braided PTFE packing with the advantages of live loading. The system is TA-Luft approved and provides excellent emission control and maximal chemical compatibility. The sets can be used on block valves, motor operated valves, and control valves.

Chesterton® 5800 Control Valve Live Loading Kits



5800 Graphite Wedge Packing reduces valve stem friction by 30% compared to square cross-section, die-formed graphite.

EMISSIONS CONTROL

1622 Low Emissions Valve Packing

Emission Control Packing For Block Valves

Chesterton® 1622 Emissions Packing is designed to minimize valve emissions and exceeds current emissions requirements for the refinery, petrochemical, and chemical industries.



Technical Data

Materials	Inconel wire reinforced flexible graphite packing with special blocking agents	
Pressure	260 bar g	
Temperature	Max 650°C (steam)	Max 455°C (oxidizing atmosphere)
pH	0 to 14 except in strong oxidizers	
Applications	Block valves with emission requirements in the refining, petrochemical and chemical industry	

Applicable Standards and Approvals: API 622 tested and qualified, Fire Safe to API 607, ChevronTexaco Standard tested and passed, API 589 and API 607 Fire Approval

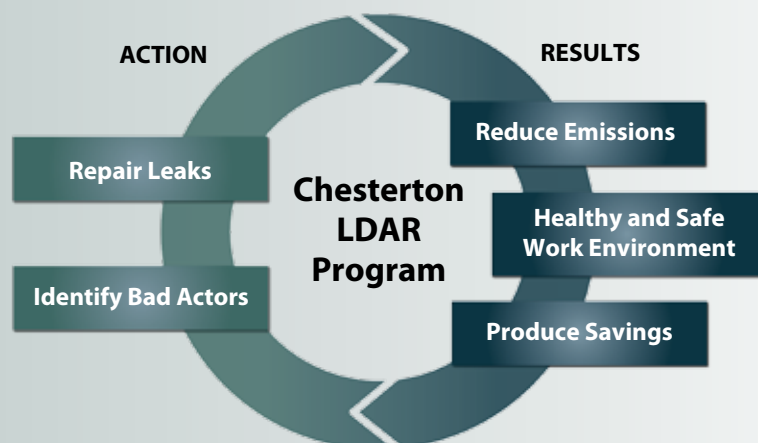
- Extremely low emissions
- Fire safe
- Single spool packing
- High pressure capability
- Warranted performance

Sealing Solutions for Static Equipment

Supporting Program

Chesterton Leak Detection and Repair

A Chesterton services program to help plants comply with environmental regulations, making factories safer and reducing costs.



1600

Advanced Valve Stem Packing

Off-the-spool performance with emission guarantee

Technical Data			
Materials	Inconel® wire reinforced flexible graphite packing		
Applications	Block Valves, as an end ring on Control Valves, Motor Operated Valves and Sootblowers		
Available Sizes	3,2 mm to 25,4 mm (1/8" to 1")		
Pressure	580 bar g	Temperature	Max 650°C (steam) Max 455°C (oxidizing atmosphere)
pH	0 to 14 except strong oxidizers		

Applicable Standards and Approvals: Passed API 589 standards at API 607 temperatures and pressures



- Fire safe
- Excellent emission control
- High pressure capability
- Guaranteed performance
- Easily cut to size on site

1724

PTFE Valve Packing

Excellent emission control and chemical resistance

Technical Data			
Materials	PTFE yarn with protective lubricants		
Applications	Block Valves, Motor Operated Valves, Control Valves		
Available Sizes	3,2 mm to 25,4 mm (1/8" to 1")		
Pressure	210 bar g	Temperature	260°C
pH	0 to 14		

Applicable Standards and Approvals: TA-Luft (Live Loaded)



- Excellent chemical resistance
- Excellent emission control
- Remains flexible

5800

Graphite Wedge Packing

Patented control valve sealing solution designed to lower valve stem friction and improve sealability

Technical Data			
Materials	Die formed high-purity graphite		
Applications	Control Valves		
Pressure	210 bar g (no end rings) 310 bar g (1600 end rings)	Temperature	2 760°C (non-oxidizing atmosphere) 430°C (oxidizing atmosphere)
pH	0 to 14		

Applicable Standards and Approvals: Meets API 589 Fire Test



- Dramatically improved valve stem response
- Low emissions guarantee
- Excellent chemical and temperature resistance

SEMI-METALLIC GASKETS

Camprofile

High Performance Semi-Metallic Gasketing

Highly reliable flange gasket with excellent emission control

Technical Data

Materials	Stainless steel carrier with a graphite or PTFE sealing element (more materials available)		
Applications	Pipe Flanges, Heat Exchangers, Vessels, Reactors, Valve Bonnets, Housings		
Pressure	300 bar g	Temperature	graphite sealing layer 550°C (inert media -200°C to 900°C) PTFE sealing layer 300°C
pH	0 to 14		

Applicable Standards and Approvals: TA-Luft



- Certified low emission performance
- High reliability
- DIN and ANSI standard gaskets
- Custom shapes available, including heat exchanger gaskets

Spiral Wound

Economical Semi-Metallic Gasketing

Excellent emission performance in an all-round general plant gasket

Technical Data

Materials	Stainless steel windings with graphite or PTFE sealing layer, stainless steel inner ring, coated carbon steel outer ring (more materials available)		
Applications	Pipe Flanges, Vessels, Reactors, Valve Bonnets, Housings		
Pressure	350 bar g	Temperature	graphite sealing layer 450°C PTFE sealing layer 300°C
pH	0 to 14		

Applicable Standards and Approvals: TA-Luft



- Economical, semi-metallic solution
- Low emissions
- DIN and ANSI standard gaskets and custom shapes available
- Various configurations

Steel Trap™ Gasket

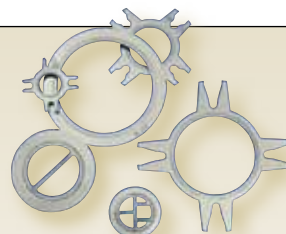
High Performance, Semi-Metallic Gasket

An innovative flange sealing system for safe and permanent sealing of flanges in severe services

Technical Data

Materials	Metal carrier from virtually any metal with graphite, PTFE or ceramic sealing elements		
Applications	Pipe Flanges, Heat Exchangers, Vessels, Reactors, Valve Bonnets, Housings		
Pressure	415 bar g	Temperature	Atmosphere -200°C to 500°C Steam up to 650°C Inert media -200°C to 900°C
pH	0 to 14		

Applicable Standards and Approvals: TA-Luft



- Thin design and soft sealing material encapsulation provides increased blow out safety
- Replaces sheet gasketing without equipment modification
- Can be manufactured in virtually any shape



SHEET GASKETS

Duragraf F

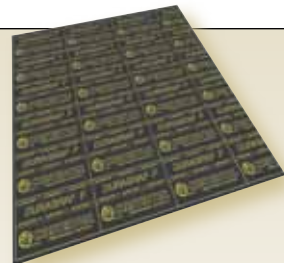
Expanded Graphite Sheet

An easy to use, economical, general service graphite sheet with a flat stainless steel insert

Technical Data

Materials	Flexible graphite with a 50 µm 316SS stainless steel flat insert		
Applications	Pipe Flanges, Vessels, Reactors, Valve Bonnets, Housings		
Available Thicknesses	1 mm, 1,5 mm, 2 mm, 3 mm		
Sheet Size	1 000 mm x 1 000 mm		
Pressure	100 bar g	Temperature	500°C
pH	0 to 14		

Applicable Standards and Approvals: DVGW, BAM



- Easy to cut by hand
- Excellent performance in steam and aggressive media
- Available as a pre-cut gasket in standard and custom sizes

Duragraf T

Expanded Graphite Sheet

High purity graphite sheet with a tanged stainless steel insert

Technical Data

Materials	Flexible graphite with a 100 µm 316SS tanged stainless steel insert		
Applications	Pipe Flanges, Vessels, Reactors, Valve Bonnets, Housings		
Available Thicknesses	1 mm, 1,5 mm, 2 mm, 3 mm		
Sheet Size	1 500 mm x 1 500 mm		
Pressure	120 bar g	Temperature	500°C
pH	0 to 14		

Applicable Standards and Approvals: DVGW, KTW, BAM, meets Shell Spec MESC SPE 85/203



- Available in nuclear grade
- Mechanically bonding assures purity
- Available as a pre-cut gasket in standard and custom sizes

553

Environmental Gasket

Specifically designed to keep the environment free from hazardous substances by combining an ecological composition with excellent sealing properties

Technical Data

Materials	Aramid fibres, glass fibres, special fillers, and an NBR binder		
Applications	Oils, gases, chemicals, refrigerants, steam, water in all industries		
Pressure	120 bar g	Temperature	450°C

Applicable Standards and Approvals: DVGW Approval, KTW Approval, BS 7531 Grade X, API 607 Fire Approval, TA-Luft



- Works in steam, chemicals, and a variety of hydrocarbons
- Excellent general service refinery gasket
- High temperature and pressure capability

455EU

General Service Gasket Sheet

Multi-purpose gasket with excellent performance in low pressure steam and light chemicals

Technical Data			
Materials	Aramid fibres, special fillers and an NBR binder		
Applications	Liquids and gaseous media, drinking water applications, general applications in industry		
Available Thicknesses	0,5 mm, 1 mm, 1,5 mm, 2 mm, 3 mm		
Sheet Size	1 500 mm x 1 500 mm		
Pressure	85 bar g	Temperature	250°C

Applicable Standards and Approvals: DVGW, KTW, BS 7531 Grade Y



- Economical gasket for general process applications
- Works in steam and light chemical applications
- Available as a pre-cut gasket in standard and custom sizes

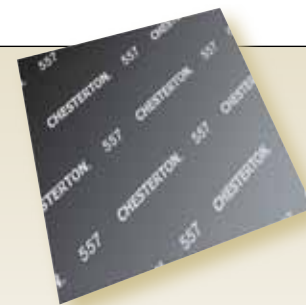
557

Performance Gasket Sheet

A tough sheet gasket that is specifically designed for demanding applications in chemical, petrochemical, and pulp and paper industries

Technical Data			
Materials	Carbon fibres, special fillers and an NBR binder		
Applications	Steam; Alkaline Media; General Applications in Chemical, Petrochemical Industries, and the Pulp and Paper Industry		
Available Thicknesses	0,5 mm, 1 mm, 1,5 mm, 2 mm, 3 mm		
Sheet Size	1 500 mm x 1 500 mm		
Pressure	100 bar g	Temperature	300°C

Applicable Standards and Approvals: DVGW, BAM, BS 7531 Grade X



- Excellent resistance to alkaline media and steam
- Available as a pre-cut gasket in standard and custom sizes

ECS-T

PTFE Sheet Gasket

Filled PTFE sheet with excellent mechanical properties and outstanding chemical resistance

Technical Data			
Materials	PTFE with fillers		
Applications	High pressure and temperature services, especially in Chemical and Hydrocarbon plants in strong acids		
Available Thicknesses	1 mm, 1,5 mm, 2 mm, 3 mm		
Sheet Size	1 500 mm x 1 500 mm (except 1 mm thickness: 1 200 mm x 1 200 mm)		
Pressure	83 bar g	Temperature	260°C
pH	0 to 14		

Applicable Standards and Approvals: FDA, TA-Luft



- High chemical resistance
- Excellent in strong acids
- Available as a pre-cut gasket in standard and custom sizes

Ancillary Products

Bolted flange connections rely on accurate tensioning to assure leak tightness. Accurate tensioning is impossible on un-lubricated bolts. Chesterton anti-seize products provide a consistent coefficient of friction between the bolt and nut threads therefore assuring no leakage and low fugitive emissions. Go to page 54.



785 & 785 FG
High-performance, extreme pressure anti-seize compound. Go to page 54.



783 ACR
Anti-seize with excellent corrosion protection for Nuts and bolts and mechanical assemblies. Go to page 54.



615 HTG
High-performance grease for severe operating conditions. Go to page 52.



652
Pneumatic lubricant and conditioner cleans, protects, and prolongs the life of pneumatic equipment and air operated valves. Go to page 51.



800 GoldEnd® Tape
Heavy-duty, high-density PTFE sealing tape. Go to page 56.

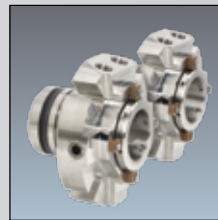
PUMP RELIABILITY SOLUTIONS

Whether advanced shaft sealing, gearbox protection or protective coatings, Chesterton provides the total solution for improved pump reliability.

Seal the stuffing box reliably and avoid equipment disassembly with a **442™ Split Mechanical Seal**



Upgrade seal performance with **S10 Single Cassette Seals** or **S20 Dual Cassette Seals**



Upgrade to the enhanced packing system with **SuperSet** to extend packing life



Protect the stuffing box and reduce the flush rate with **14K Restriction Bushings**



Protect pump volute against chemical attack, erosion, corrosion and abrasion with **ARC 858** and **855 Composite Coatings**



Eliminate abrasive particles in the stuffing box and extend seal and packing life with **SpiralTrac™**



Rebuild, restore and coat impeller vanes with **ARC 855 Abrasion Control Liquid Composite Coating**





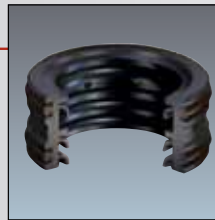
Make any size gasket with
860 Moldable Polymer Gasketing



Seal and protect flushing connectors
with **800 GoldEnd® Tape**



Reduce maintenance cost and
sleeve wear with advanced
1730 Pump Packing



High reliability stuffing
box sealing solutions
for high viscosity fluids
and powders with
30KC Cartridge Seal



Prevent rust and seizure bolts
with **783 ACR Anti-seize**
Prevent fretting and corrosion
while securing bearings with
783 ACR Anti-seize



Rebuild and protect worn
shafts with **ARC10
Machinable Composite**



Seal threaded fittings
with **800 GoldEnd® Tape**
or **900 GoldEnd® Paste**



Protect the bearing housing
with **30K Bearing Protection**
or with easy to install
33K Split Bearing Protection

DEDICATED TO QUALITY AND RELIABILITY

Engineered Polymer Solutions

Chesterton's Engineered Polymer Solutions group is a worldwide manufacturer and distributor of the highest performing polymer seals. We combine our technical expertise with state-of-the-art material technologies to provide industry-leading solutions.

- Hydraulic and pneumatic seals
- Spring-energized seals
- Custom seals
- Service programs

Materials and Innovation

We utilize the full range of state-of-the-art polymer technologies to support a wide range of industrial applications.

Designs and Expertise

Our engineers draw on years of experience to design value-added products with a focus on continuously improving equipment performance.

SpeedSeal®

Chesterton offers regional service with fully integrated facilities that rely on advanced equipment, flexible tooling, and semi-finished materials. This allows us to provide you with a broad selection of product offerings—*with same day delivery.*




















Solutions and Service

Our distributors and specialists work closely with customers to provide the best service in the industry.



Fluid Power Application Guide

Please contact your local Chesterton Representative to help you select the best product for your application.

RECIPROCATING MOTION																
Speed	Types	Product	Profile Series	Description	Attributes					Friction			Wear Resistance			
					mold	**mach	hyd.	pne.	split	Low	Mid	High	Low	Mid	High	
to 15 m/s (3 000 ft/min)	Cap Seals (Rod and Piston)	RCCS		Double acting, dual component seal		•	•	•		•				•		
		PCCS		Double acting, dual component seal		•	•	•		•					•	
to 1 m/s (200 ft/min)	Wipers	W5K, W21K		Positive angled profile with flange	•	•	•	•	•	•				•		
	Rod Seals, U-cups	R10K, R22KN		Single acting, positive angled profile	•	•	•	•		•				•		
		R23K		Single acting, radiused sealing surface for pneumatic applications		•		•		•					•	
	Rod Seals, Stacked Sets	R8K		Single acting, positive angled profile, multiple stacked set	•	•	•		•		•				•	
		R11K		Single acting, negative angled profile, dual stacked set	•	•	•		•		•				•	
		R28K		Single acting, positive angled profile, multiple stacked set		•	•		•		•				•	
		R28K1		Single acting, positive angled profile, multiple stacked set		•	•				•				•	
	Piston Seals, U-cups	P10K, P22KN		Single acting, positive angled profile	•		•	•		•					•	
		P23K		Single acting, radiused sealing surface for pneumatic applications		•		•		•					•	
	Piston Seals, Stacked Sets	P8K		Single acting, positive angled profile, multiple stacked set	•	•	•		•			•				•
		P28K		Single acting, positive angled profile, multiple stacked set		•	•		•		•				•	
		P28K1		Single acting, positive angled profile, multiple stacked set		•	•				•				•	
	Replaceable Bearings	18K, 19K		Metric and English size bearing bands	•		•	•	•	•					•	
		WR		Custom bearing bands		•	•	•	•	•					•	
	Anti-extrusion Rings	9K		Backup rings or anti-extrusion rings		•	•	•	•	•					•	
to 0,75 m/s (150 ft/min)	Compression Seals, (Rod and Piston)	R20K, P20K		Double acting, negative angled profile, low speed hydraulic applications		•	•				•			•		
Static	Valve Seals	M20K-OR		Static seal for O-Ring upgrades in hydraulic valves		•	•			•				•		

**Machined product does not require tooling.

POLYMER MATERIALS

Chesterton's exclusive thermoset polyurethanes (EU) are the most advanced seal materials that provide superior performance in hydraulic, pneumatic, and rotary equipment. This state-of-the-art polymer technology has been field-tested and proven in the most demanding applications around the world.

AWC800

Red Polymer

AWC800, the base of Chesterton's polymer seal program, is available in the majority of profiles.



Operating Conditions	
Temperature	-50°C to +85°C
Pressure	Maximum 103,5 MPa
Fluid Compatibility	Mineral oil-based fluids, HFA-E, HFB (ISO 6743-4)
Surface Speed (continuous)	Reciprocating 1,0 m/s, rotating 0,5 m/s
Coefficient of Friction	Dry running 0,18 to 0,22
Shelf Life	>25 years

AWC800 is an EU polyether PU class material

- High sealing performance and leak-free operation
- Excellent wear and abrasion resistance for hostile environments
- Built-in lubricant and long elastic memory enable a longer service life
- Plant-wide usage



AWC800 is available for molded seals



AWC800 is in stock at all Chesterton SpeedSeal centres for rapid delivery of machined seals



AWC850

HGT Polymer

AWC850 High Glycol Tolerant material is a brand-new material technology that is resistant to HFC glycol-based hydraulic fluids.

AWC860

Cherry Polymer

Thanks to its mechanical properties, the AWC860 is best suited for highly demanding, heavy-duty applications where it helps extend equipment's mean time between repairs (MTBR).

AWC805

Blue Polymer

The AWC805 polymer is a softer material that conforms to uneven contact surfaces in worn or damaged equipment, delaying the need for costly repairs.

Operating Conditions

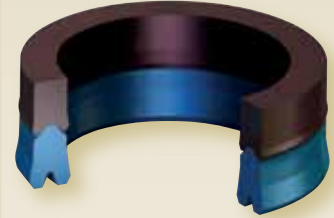
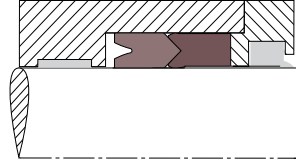
	AWC805 Blue Polymer	AWC860 Cherry Polymer	AWC850 HGT Polymer
Description and benefits	<ul style="list-style-type: none"> • Highly elastic • Extends efficient operation in slightly worn equipment • Conforms to uneven surfaces 	<ul style="list-style-type: none"> • Suitable for higher temperatures • Robust polymer structure • Longer service life due to excellent abrasion resistance • Very low friction 	<ul style="list-style-type: none"> • Resistant to HFC glycol-based hydraulic fluids • Longer service life due to a new material technology • Excellent wear and abrasion resistance
Typical use	<ul style="list-style-type: none"> • Mining equipment • Dusty environment • Presses • Old, worn hydraulic equipment cylinders 	<ul style="list-style-type: none"> • Mining equipment • Forging machines • Steel industry • Heavy-duty applications 	<ul style="list-style-type: none"> • Fire-risk environments • Steel industry • Forging • Die casting
Temperature	-50°C to 85°C	-50°C to 120°C	-50°C to 105°C
Pressure	Max 103,5 MPa	Max 103,5 MPa	Max 103,5 MPa
Fluid compatibility	Mineral oil-based fluids, HFA-E, HFB (ISO 6743-4)	Mineral oil-based fluids, HFA-E, HFB (ISO 6743-4)	HFC, up to 100% glycol concentration
Coefficient of friction	0,35 dry running	0,18 to 0,22 dry running	0,18 dry running
Elongation at break	580%	540%	600%

For additional information about product compatibility please visit www.chesterton.com/ENU/Resources/ProductLiterature/

11K

Split, Dual Component Hydraulic Rod Seal

Eliminates the need for equipment disassembly during seal installation and provides sealing on worn, scored surfaces



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC805 (EU)	6 to 1 320 (1/4 to 52)	-50 to 85 (-60 to 185)	103,5 (15 000)	0,5 (100)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	103,5 (15 000)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)



- Split design eliminates the need to disassemble equipment
- One optimized seal concept for different press applications
- Dual material combination works in both new and worn equipment
- Design eliminates shimming and future adjustments

PRODUCT PROFILES:

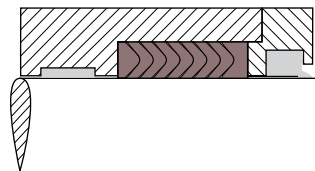


Sealing Solutions for Fluid Power

8K™

Split, Stack Set for Hydraulic Rod Applications

Advanced stack set technology for high speed hydraulic applications and for scored, mechanically damaged rod and ram surfaces



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC805 (EU)	6 to 1 320 (1/4 to 52)	-50 to 85 (-60 to 185)	103,5 (15 000)	0,5 (100)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)



- Split components for ease of installation
- Light gland offers greater speed capability than conventional sets
- Pressure sensitive lip design minimizes friction and extends service life
- Material combinations designed for use in both new and worn equipment

PRODUCT PROFILE:



8K

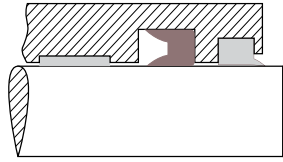
*Please contact your Chesterton representative for larger sizes



10K™

Single Acting U-Cup Design for Rod and Piston Applications

High performance U-cup design for the most demanding hydraulic and pneumatic applications



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC805 (EU)	6 to 1 320 (1/4 to 52)	-50 to 85 (-60 to 185)	103,5 (15 000)	0,5 (100)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)

PRODUCT PROFILES:

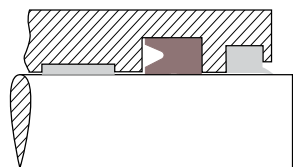


- Automatic sealing for optimal sealing force with minimal frictional resistance
- Flexible lip design compensates for excessive radial space in worn equipment
- Advanced material technology withstands scored, damaged surfaces
- Positive rake lip profile wipes away contamination from mating surface

22K

Single Acting, U-Cup for Rod and Piston Applications in Hydraulics

Flexible family of high performance hydraulic seals for standard and high pressure applications



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	103,5 (15 000)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)

Applicable standards: DIN/ISO 5597, DIN/ISO 5597-1, DIN/ISO 7425-2

PRODUCT PROFILES:



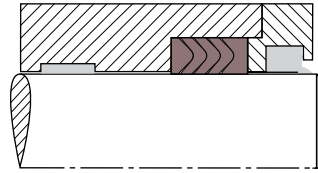
- Single-acting, U-cup design, zero leakage throughout the entire operating range
- Abrasion-resistant design, excellent performance in hydraulic applications
- Lip geometry stabilizes seal to prevent twisting and eases installation
- Application specific solutions, including anti-extrusion ring, energizer, and dynamic/static lip designs

*Please contact your Chesterton representative for larger sizes

28K/28K1

Stack Set for Piston and Rod Applications in Hydraulics

Flexible family of high performance, proven stack sets for heavy-duty, hydraulic applications



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	1 (200)
AWC805 (EU)	6 to 1 320 (1/4 to 52)	-50 to 85 (-60 to 185)	103,5 (15 000)	0,5 (100)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,9 (185)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	103,5 (15 000)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	1,25 (250)



- Split components for ease of installation
- Symmetrical lip design for use in rod and piston applications
- Flexible lips for reduced frictional load of metal components
- Manufacturing process allows flexibility to create any size

PRODUCT PROFILES:

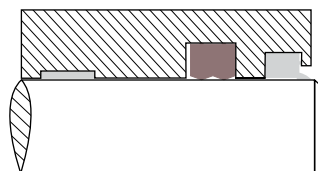


Sealing Solutions for Fluid Power

20K™

Heavy-Duty Bi-Directional Hydraulic Seal

Robust seal design combined with high performance polymer technology for most demanding heavy-duty, high pressure applications



SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	34,5 (5 000)	0,75 (150)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	103,5 (15 000)	0,5 (100)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	52,0 (7 500)	0,5 (100)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	103,5 (15 000)	0,5 (100)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	103,5 (15 000)	0,62 (125)



- Ideal replacement for 2-, 3-, or 4-piece cap seal assemblies
- Excellent extrusion resistance
- Abrasion-resistant design withstands demanding environments
- Outstanding resistance to shock loading and pressure spikes

Applicable standards: DIN/ISO 4725-1, DIN/ISO 4725-2, DIN/ISO 6547

PRODUCT PROFILES:

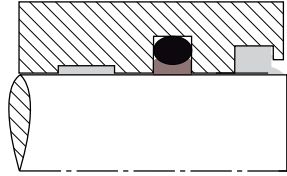


*Please contact your Chesterton representative for larger sizes

CCS

Rod and Piston Seals

High performance, dual component system for bi-directional sealing in hydraulic and pneumatic applications



SPECIFICATIONS

Cap Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min) Reciprocating/Rotary
**AWC800 (EU)	up to 1 400 (55)	-35 to 85 (-30 to 185)	34,5 (5 000)	0,85 (185)/0,5 (100)
**AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	34,5 (5 000)	0,9 (185)/0,5 (100)
**AWC860 (EU)	up to 508 (20)	-35 to 120 (-30 to 250)	34,5 (5 000)	1,25 (250)/0,75 (150)
***AWC300 (glass filled PTFE)	up to 600 (24)	-35 to 120 (-30 to 250)	34,5 (5 000)	15 (3 000)/5,0 (960)
***AWC400 (carbon filled PTFE)	up to 600 (24)	-35 to 120 (-30 to 250)	34,5 (5 000)	15 (3 000)/5,0 (960)
**AWC500 (bronze filled PTFE)	up to 600 (24)	-35 to 120 (-30 to 250)	34,5 (5 000)	15 (3 000)/5,0 (960)

Applicable standards: DIN/ISO 4725-1 and 4725-2

**Buna energizer
***FKM energizer

PRODUCT PROFILES:

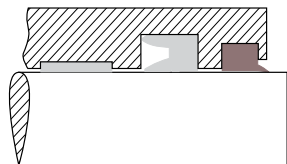


- Second generation PTFE and high performance polymers offer improved performance
- Compression seal design increases sealing force with system pressure
- Dramatically reduced friction and eliminated "Stick-Slip" effect
- Excellent chemical- and heat-resistant characteristics

W5K & W21K

Wipers for Hydraulic and Pneumatic Applications

High performance protection of hydraulic and pneumatic actuators/systems

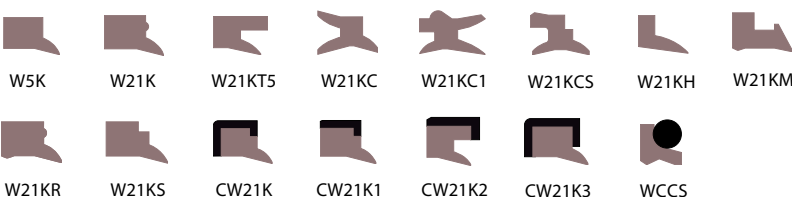


SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)	1 (200)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)	0,9 (185)
AWC850 (EU)	6 to 254 (1/4 to 10)	-50 to 104 (-60 to 220)	0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)	1,25 (250)

Applicable standards: DIN/ISO 6195, ISO 3320

PRODUCT PROFILES:



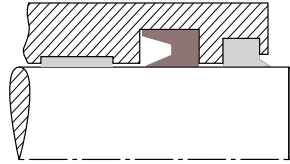
- Positive rake lip design effectively wipes contaminants away from surface
- Prevents scoring and system contamination
- Abrasion-resistant design withstands demanding environments
- Prolongs lifetime of equipment and components

*Please contact your Chesterton representative for larger sizes

23K

Pneumatic Seals for Rod and Piston Applications

Unique seal design incorporated with high performance, polymer technology for low friction sealing in pneumatic applications



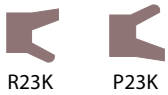
SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)	Pressure MPa (psi)	Speed m/s (ft/min)
AWC700 (FKM)	6 to 152 (1/4 to 6)	-30 to 200 (-20 to 400)	0,9 (125)	1,5 (300)
AWC800 (EU)	6 to 1 400 (1/4 to 55)	-50 to 85 (-60 to 185)		1 (200)
AWC830 (EU)	6 to 254 (1/4 to 10)	-35 to 75 (-30 to 165)		0,9 (185)
AWC860 (EU)	6 to 508 (1/4 to 20)	-50 to 120 (-60 to 250)		1,25 (250)



- Unique lip geometry provides optimal sealing force for pneumatic applications
- Radiused lip design ensures a continuous lubricating film, minimizing wear
- Unique design minimizes frictional heat and energy consumption
- Eliminates “Stick-Slip” effect

PRODUCT PROFILES:



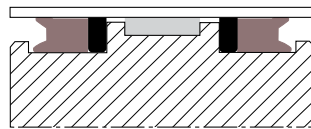
R23K P23K

Sealing Solutions for Fluid Power

9K

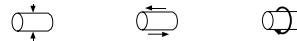
Anti-Extrusion Rings for Hydraulic Applications

Designed to prevent seals from extruding into equipment clearances for heavy-duty, high pressure applications



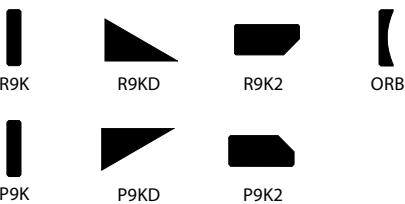
SPECIFICATIONS

Material (designation)	Size Range* mm (inch)	Temperature °C (°F)
AWC520 (Virgin PTFE)	6 to 600 (1/4 to 24)	Cryogenic to 230 (Cryogenic to 450)
AWC650 (Acetal)	6 to 381 (1/4 to 15)	-30 to 90 (-20 to 200)
AWC665 (Nylon with MoS ₂)	>381 to 1 450 (>15 to 57)	-40 to 105 (-40 to 212)
AWC663 (PA-6)	6 to 600 (1/4 to 24)	-40 to 105 (-40 to 212)



- Prevents extrusion of sealing element into equipment clearances: improves MTBR
- Machining process, allows the flexibility to create any size
- Available in various profiles and materials
- Split design for ease of installation

PRODUCT PROFILES:

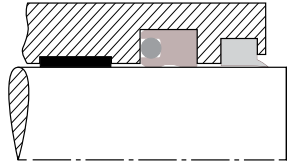


*Please contact your Chesterton representative for larger sizes

18K & 19K

Bearing Bands for Hydraulic and Pneumatic Applications

High performance replaceable bearing bands for cylinders



SPECIFICATIONS

Material** (designation)	Size Range* mm (inch)	Temperature °C (°F)	Compressive Strength MPa (psi) ASTM D695	Speed m/s (ft/min)
AWC660 40% glass filled nylon	to 508 (to 20)	-40 to 121 (-40 to 250)	158,8 (23 000)	1,25 (250)

19K Metric Designs		
Cross section (S), mm	Height (H ₁), mm	Outer Diameter range (OD), mm
2,5	5	20 to 140
	9	55 to 220
	14	70 to 400
	24	315 to 400

18K Inch Designs		
Cross section (S), inch	Height (H ₁), inch	Outer Diameter range (OD), inches
0.125	0,375	1 to 4
	0,500	1,5 to 6
	0,750	3,5 to 8
	1,000	4 to 20

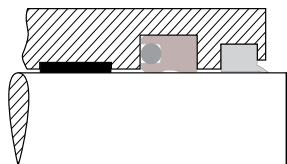
PRODUCT PROFILES:



WR

Bearing Bands for Hydraulic and Pneumatic Applications

Custom bearing bands for hydraulic and pneumatic applications



SPECIFICATIONS

Material** (designation)	Size Range* mm (inch)	Temperature °C (°F)	Compression Strength MPa/psi ASTM/ISO Testing	Speed m/s (ft/min)
AWC630 Unfilled PEEK®	25 to 152 (1 to 6)	-45 to 175 (-50 to 350)	138,1 / 20 000 ASTM D695	1 (200)
AWC635 Glass-filled PEEK®	25 to 152 (1 to 6)	-45 to 175 (-50 to 350)	179,5 / 26 000 ASTM D695	1 (200)
AWC650 Acetal (POM)	25 to 381 (1 to 15)	-31 to 73 (-25 to 165)	55,2 / 8 000 ASTM D695	1 (200)
AWC665 Nylon with MoS ₂	381 to 1 450 (15 to 57)	-40 to 105 (-40 to 212)	96,7 / 14 000 ISO 604	1 (200)

Applicable standards: IDIN/ISO 10776

PRODUCT PROFILES:



*Please contact your Chesterton representative for larger sizes

**Other materials are available upon request



- Heat stabilized nylon—the same carrying load as bronze
- Replaceable bearings prevent metal-to-metal contact and prolong equipment life
- Reduces radial movement, therefore extending seal life
- Split design minimizes downtime

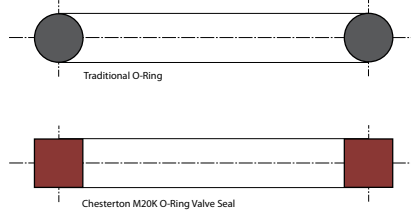


- Replaceable bearings, a cost-effective method for improving equipment performance
- Reduces radial movement, prevents metal-to-metal contact, while extending seal life
- Custom wear rings eliminate unnecessary modifications
- Machining process allows the flexibility to create any size

M20K

O-Ring Replacement Kits for Hydraulic Valves

Made from advanced AWC800 polymer, this Chesterton® valve seal outlasts traditional O-Rings, reducing maintenance and leakage



STANDARD AVAILABLE KITS

Valve Size and Port	Replaced O-Ring	Quantity (pcs)	Small Kit Reorder# CLK0104	Standard Kit Reorder# CLK0105	Large Kit Reorder# CLK0155
NG6 (A,B,P,T)	OR9,25x1,78	25	✓	✓	✓
NG10 (A,B,P,T)	OR12X2	25	✓	✓	✓
NG10 (X,Y)	OR10,82X1,78	25	✓	✓	✓
NG16 (A,B,P,T)	OR22X2,5	25	✓	✓	✓
NG16 (X,Y)	OR10X2	25	✓	✓	✓
NG25 (A,B,P,T)	OR27X3	25		✓	✓
NG25 (X,Y)	OR19X3	25		✓	✓
NG32 (A,B,P,T)	OR42X3	25			✓
NG32 (X,Y)	OR19X3	25			✓

Applicable standards: DIN24340, ISO 5781, ISO 4401, ISO 5263, ISO 6264, ISO 6263 & CETOP RP:121H

- High performance Chesterton polymer material AWC800 (EU)
- High resistance to compression setting and extrusion
- Long elastic memory and no aging
- Direct retrofit, no equipment modifications required

Sealing Solutions for Fluid Power

Ancillary Products



652 – Pneumatic Lubrication and Conditioner

Cleans, protects and prolongs the life of pneumatic equipment and air operated valves. Go to page 51.



785 & 785 FG

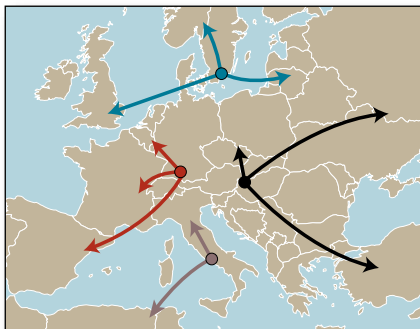
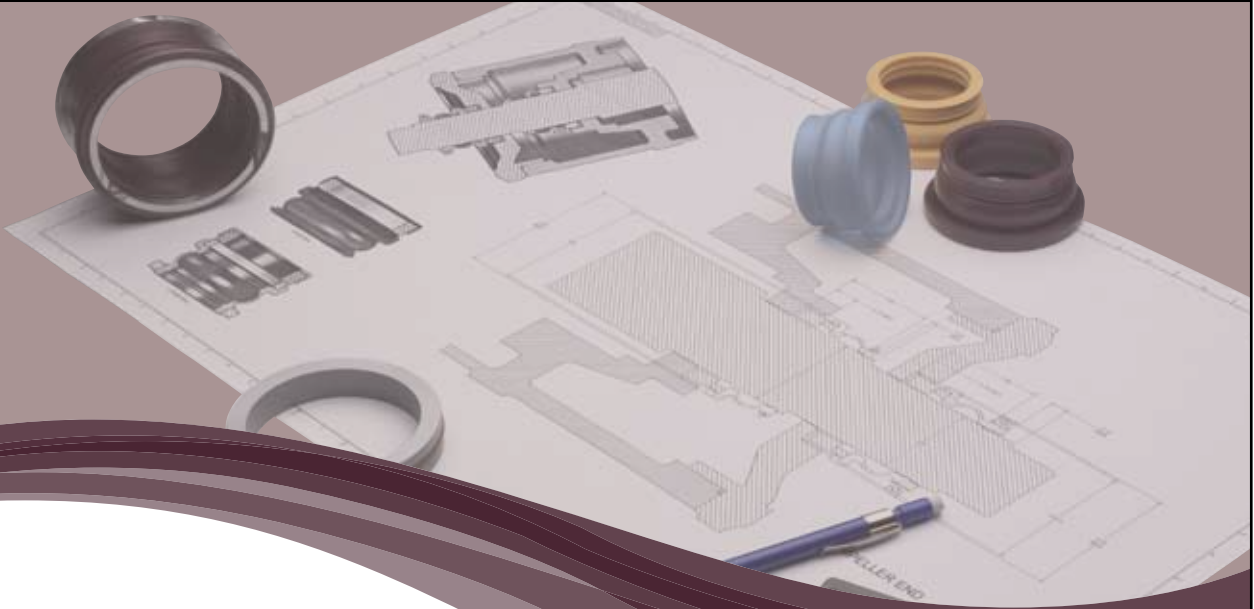
High-performance, extreme pressure anti-seize compound. Go to page 54.



860 – Moldable Polymer Gasketing

Two-Part extrudable gasket material for flange and thread sealing. Go to page 56.

* Please contact your Chesterton representative for larger sizes



SPEEDSEAL® SERVICE CENTERS

Fast and Flexible

Chesterton® SpeedSeal offers same day delivery from its Service Center network for Europe and the Middle East.

Our fully-integrated facility utilizes advanced equipment and a wide range materials and designs to provide you with a broad selection of product offerings.

- Same day delivery*
- Sizes available up to 1400 mm*
- Engineered Solutions
- CAD hydraulic engineering
- Prototypes available
- Cylinder and equipment upgrade and repair

**Conditions apply. Contact SpeedSeal for available service options.*

SpeedSeal Service Centers

- SpeedSeal Germany – Ismaning
- SpeedSeal Sweden – Karlshamn
- SpeedSeal Hungary – Mogyorod
- SpeedSeal Italy – Roma
(Opening in 2014)



EFFICIENCY, PERFORMANCE AND PRODUCTIVITY

Chesterton offers products and total system solutions for production process, facility, and maintenance needs.

- *Lubricants and greases*
- *Maintenance specialties*
- *Cleaners and degreasers*
- *Metalworking fluids and Corrosion control*

State-of-the-art technologies, environmentally acceptable alternatives and strict quality processes contribute to fulfilling the customers' expectations:

- Increased productivity
- Lowered costs
- Reduced disposal and labour costs

In partnership with our worldwide distribution channels and factory-trained local specialists, Chesterton offers superior value, outstanding customer service, technical support, and delivery.

In these pages, you will find an overview of our products. For in-depth, individual product information, ask your local Chesterton Specialist for further information.



Application Guide

Please contact your local Chesterton Representative to help you select the best product for your application.

Lubricants

LIQUID LUBRICANTS	Chains	Bearings	Open Gears	Pneumatics	Wire Rope and Cable	Control Valves	Relative Performance	High Temp.	Low Temp.	Load Carrying Ability	Water Resistance	Food Acceptance NSF Category
601	√++			√+	√++		√+	√+	√++			H2
610/610MT +/-610HT	√++	√			√+		√++	√++	√++		√	H2
636FG	√++	√		√+	√+		√++	√++	√++		√	H1
690FG	√++			√			√	√	√		√	H1
715/715G	√+		√++	√++	√++		√	√	√		√++	H2
652	√+			√+	√+	√	√+	√+	√++			H2
GREASES												
615	√	√+	√		√	√+	√	√+	√+	√+	√++	H2
633		√++	√+				√++	√++	√++		√	H2
635		√++				√++	√+	√+	√++		√++	H2
625		√+				√+	√	√	√		√++	H1
630	√+ Aerosol	√++	√			√++	√+	√+	√+		√++	H1

H1—Product may be used in areas where there is exposure of the lubricated part to edible product.

H2—Used on equipment where there is no chance of the lubricant or lubricated part contacting edible products

Cleaners and Degreasers

Application	Soil/Deposit	Water-Based Alkali Cleans Petroleum Oil, Greases, Natural Oils, Dirt, and Dust, Biodegradable					Water-Based Acid Cleans Rust, Hard Water Scale, Biodegradable		Solvent-Based	
		360 Phosphate-Free Cleaner	235 SSC	803 IMS II	KPC 820	218 HDP Pressure Wash	338 Super Rust Remover	346 Descaler and Chemical Cleaner	274 Industrial Degreaser	276 Electronic Component Cleaner
Application	Soil/Deposit	Heavy Oil, Adhesives, Glues		√			√			
		Grease, Petroleum Oil, Dirt		√+	√++	√++	√+		√+	√+
		Natural Oils—Animal Fat, Vegetable Oil	√++	√	√+	√	√			√+
		Scale, Hard Water Deposits						√	√++	
		Rust and Oxidation						√++	√	
	Parts Degreasing Shop	Manual Brush or Wipe	√+	√+	√++	√++	√			√+
		Parts Degreasing Station	√		√+	√+				√++
		Dip Tank	√	√	√++	√+				√++
		Steam Cleaning		√++	√+	√	√+			
		Pre-Cleaning Parts/Machinery	√+	√+	√++	√+	√+			
		Parts Degreasing Production	Agitated Tank				√	√++		
	Dip Tank		√+	√+	√++	√+	√			√
	Pressure Washing			√+			√++			
	Ultrasonic					√++				√+
	Machinery/Plant Cleaning	Spray Booth/Spray Tunnel					√++			
Closed Circulation, Pipe Line		√	√	√+	√+	√+				
Tanks and Vessels		√+	√+	√++	√+	√				
Food Processing Equipment		√++	√	√+	√+	√			√	
Building Structures, Floors, and Walls		√+	√++	√++	√++	√				
Floor Scrubbers		√	√	√	√++	√++				
Coolers, Condensers, Heat Exchangers							√++	√++		
Electrical Motors—Non-energized		√++	√++	√+	√				√++	

√++ = Best Choice

√+ = Better Choice

√ = Good Choice

Lubricants and Greases



Chesterton's lubrication program provides you with expertise and support for your entire production process and maintenance operations.

Chesterton® lubrication programs will:

- Extend equipment life
- Reduce costs
- Increase profitability
- Improve reliability
- Increase productivity

Key applications include:

- Chains
- Bearings
- Wire rope and cable
- Pneumatics
- Open gears
- Thread Lubrication/ Anti-seize
- Valves
- Extreme pressure applications

LIQUID LUBRICANTS

601

Chain Drive Pin and Bushing Lubricant—General Service

Premium quality, light oil that penetrates between the close clearance of chain drive bushings and pins to provide critical lubrication.

Product Characteristics

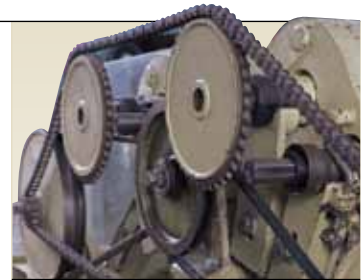
Rapid penetration
 E.P. additives increase load carrying ability
 No dirt and dust build up
 No sticky lubricant residues
 Long lasting, non-drying film
 -23°C to 150°C (-10°F to 300°F)

Available Container Sizes: Aerosol, 3,8 l, 20 l, 208 l

NSF Registered

Applications

Chain-driven machinery
 Conveyors
 Packaging equipment
 Hoist chains
 Forklift trucks
 Chain saws



- Increases chain life
- Reduces lubricant consumption
- Reduces energy consumption

610/610MT Plus/610HT

Synthetic Lubricating Fluid—High Temperature Service

Premium quality, 100% synthetic fluid that cleans as it lubricates over a wide temperature range of -25°C to 270°C (-13°F to 518°F).

Product Characteristics

Low evaporation
 Low-carbonizing
 High detergency—self cleaning
 E.P. additives increase load carrying ability
Available Container Sizes: Aerosol (610 only), 3,8 l (610/610HT only), 20 l, 208 l

NSF Registered

636FG is a Food Grade version of 610MT Plus.

Applications

Equipment operating at elevated temperatures
 Refrigerated areas
 Severe environments
 Oven and high temperature chains
 Bearings
 Gearboxes



- Reduces lubricant consumption
- Reduced equipment cleaning and downtime
- Reduces energy consumption
- Increases equipment life

610 Primary Viscosities - ISO VG 68 - 610, ISO VG 220 - 610MT Plus, ISO VG 460+ - 610HT

690

FG Lubricant—Food Grade

Cost effective, high quality, multi-purpose, non-staining penetrating lubricant; NSF authorized for incidental food contact and meets FDA standards.

Product Characteristics

Clear, colourless, odourless
Safe and easy to use in bulk or aerosol
-9°C to 120°C (15°F to 250°F)

Available Container Sizes: Aerosol, 3,8 l, 20 l, 208 l

NSF Registered H1

Complies with FDA 178.3620

Applications

Food, beverage and pharmaceutical processing equipment, including:

- chain drives
- pistons
- valves
- rollers
- pneumatics



- Safe to use
- Reduces energy consumption
- Increases equipment life

715

Spraflex®/Spraflex® Gold

A surface lubricant for chain drives, open gears, and wire rope. Provides a long lasting, non-extruding “wear shield” to protect equipment operating under heavy loads.

Product Characteristics

No lubricant squeeze out
Non-drip
Self-adhering, flexible lubricant
Resistant to acid fumes
Guards against rust and corrosion

Available Container Sizes: Aerosol, 3,8 l, 20 l, 208 l

NSF Registered

Applications

- Chains
- Open gears
- Wire ropes and cables
- Equipment in wet or underwater environment

Note: Use Chesterton’s 715 Spraflex® Gold where a clean, non-staining film is needed



- Reduces lubricant consumption
- Water resistant
- Provides long-term equipment life

652

Pneumatic Lubricant and Conditioner

High-performance, low viscosity formulation reduces up to 90% of pneumatic maintenance costs, decreases downtime and rejects. Cleans, protects, and prolongs the life of pneumatic equipment.

Product Characteristics

Will not cause sludge build-up
Prevents seals/O-rings from drying out
Reduces power consumption
Cleans rust, sludge, and dirt from all air tools as it lubricates

Available Container Sizes: 475 ml, 3,8 l, 20 l, 208 l

NSF Registered

Applications

- Air tools
- Cylinders
- Air line lubricators
- Air impact wrenches, hammers, drills
- Production air systems
- CNC machines
- Robotics
- Assembly line tools



- Lowers friction and reduces air cost
- Cleans and lubricates
- Prevents corrosion

GREASES

615

HTG NLGI #1, HTG NLGI #2

High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance.

Temperature limit -40°C (-40°F) to 204°C (400°F)

Product Characteristics

Superior water resistance
 Excellent corrosion protection
 Compatible with most popular greases
 Exceptional shear resistance
 Anti-oxidants prevent hardening
 QBT™ Quiet Bearing Technology
Available Container Sizes: 400 g, 18 kg, 55 kg, 181 kg

NSF Registered

Applications

High water, temperature environment plants including:
 Pulp and paper mills
 Mining operations
 Steel, aluminum, and metal processing
 Marine
 Power
 Water and wastewater



- Extends bearing life
- Reduces downtimes
- Increases productivity
- Reduces grease consumption

635 SXC

High-performance, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance; 635 is synthetic based and offers superior high temperature stability and resistance to steam and corrosive chemicals. Temperature limit -40°C (-40°F) to 240°C (464°F)

Product Characteristics

High load carrying capability
 High temperature stability
 Superior water washout resistance
 Excellent corrosion protection
Available Container Sizes: 400 g, 18 kg, 55 kg, 180 kg

Applications

High water, temperature environment plants including:
 Pulp and paper mills
 Mining operations
 Steel, aluminum, and metal processing
 Marine
 Power
 Water and wastewater



- Extends bearing life
- Reduces downtimes
- Increases productivity
- Reduces grease consumption

625 CXF, 630 SXCF

High-performance, food grade, corrosion inhibited grease with outstanding extreme pressure capabilities and excellent water washout resistance

625 CXF—Temperature limit -30°C (-22°F) to 204°C (400°F)

630 SXCF—Temperature limit -40°C (-40°F) to 240°C (464°F)

Product Characteristics

Superior water washout resistance
 Excellent corrosion protection
 Compatible with most popular greases
 Exceptional shear resistance
 Anti-oxidants prevent hardening or crystallization
Available Container Sizes: Aerosol (630 SXCF only), 400 g, 18 kg, 55 kg, 180 kg

Applications

Food, pharmaceutical, beverage industries
 Processing and packaging machines
 Bottling equipment
 Fruit feeders
 Paste and sauce fillers
 Canning machinery
 Meat packaging equipment
 Carton filling equipment



- Extends bearing life
- Reduces downtimes
- Increases productivity
- Reduces grease consumption

NSF Registered H1

Complies with FDA regulations 178.3570.

LUBRICANT DISPENSERS

Lubri-Cup™ EM

Automatic single-point lubricator dispenses Chesterton grease to critical areas, eliminating over- and under-greasing.

Product Characteristics

Microprocessor-controlled, "pulse" delivery system
 Programmable—operates up to 12 months
 Replaceable service packs
 Lubricates up to 8 bearings—up to 6 m (19 feet) away
 Sealed microprocessor

Applications

All Industries Including:
 Pulp and paper mills
 Mining operations
 Metal fabrication
 Steel mills
 Marine

Versions Available

Lubri-Cup™ EM	Battery operated
Lubri-Cup™ EM SP	Machine synchronized and externally powered (DC power and AC power)



- Reliable lubrication system
- User-friendly
- Cost-effective

Lubri-Cup™ OL 500 Oiler

Automatic lubricator dispenses Chesterton oils to chains and other critical areas.

Product Characteristics

Microprocessor-controlled, "pulse" delivery system
 Programmable—operates up to 12 months
 Refillable
 Lubricates up to 4 points
 Sealed microprocessor

Applications

All Industries Including:
 Pulp and paper mills
 Saw mills
 Mining operations
 Steel mills
 Food, pharmaceutical, beverage industries
 General Industry

Versions Available

Lubri-Cup™ 500cc oiler	Battery operated
Lubri-Cup™ 500cc oiler	Machine synchronized and externally powered (DC power)
Lubri-Cup™ 500cc oiler	Machine synchronized and externally powered (AC power)



- Environmentally-friendly, refillable container
- User-friendly with a large LCD
- Cost effective

Lubri-Cup™ VG Mini

Automatic single-point lubricator dispenses Chesterton grease to critical areas, eliminating over- and under-greasing.

Product Characteristics

A compact, convenient and sturdy design that is simple to install and operate
 Preset dispensing rates—1, 3, 6, 9, 12 months
 Remote operation—up to 0,3 m (1 ft)
 Electrochemical operation (Nitrogen gas)
 Sealed microprocessor
 Ability to turn on and off

Applications

All Industries Including:
 Mining and Ore Processing
 Power
 Pulp and Paper
 Water and Wastewater
 Steel and Metal Processing



- Cost-effective
- Transparent container for lubricant inspection
- Reliable lubrication system

THREAD LUBRICANTS/ANTI-SEIZE

785 & 785 FG

Parting Lubricant

The “new generation” anti-seize compound contains a blend of ultrafine, inorganic solid lubricants in a non-carbonizing, ashless synthetic carrier. Withstands severe temperature and pressure conditions.

Product Characteristics

Eases disassembly up to 1 204°C (2 200°F)
 Fills in microscopic voids
 No toxic heavy metals
 For extreme pressures up to
 4 730 kg/cm² (67 570 psi)
Available Container Sizes:
 785: 200 g, 250 g, 500 g, Aerosol, 24 kg
 785FG: 200 g, 500 g

NSF Registered

Applications

Covers all industries
 Bolts
 Screws
 Studs
 Pipe threads
 Press fits
 Pump sleeves
Note: FG designates a Food Grade Product



- Lubricates for assembly and disassembly
- Protects against corrosion
- No need for torque tension recalculation

783

ACR

783 combines high performance industrial anti-seize performance with extreme corrosion protection and water washout resistance. 783 is ideal where the primary cause of bolt seizure is corrosion.

Product Characteristics

Eases disassembly up to 900°C (1 652°F)
 Fills in microscopic voids
 No toxic heavy metals
 For extreme pressure
 up to 8 928 kg/cm² (127 000 psi)
 Safer than traditional metallic based anti-seizes
Available Container Sizes: 250 g, 500 g, 24 kg

Applications

Covers all industries
 Bolts
 Screws
 Studs
 Pipe threads
 Press fits
 Pump sleeves



- Extreme corrosion protection and water washout resistance
- Lubricates for assembly and disassembly

725

Nickel Anti-Seize Compound

A high-performance, nickel based anti-seize. Combines the extreme pressure, corrosion resistant anti-seize abilities of colloidal nickel, in an oil suspension that can withstand temperatures up to 1 425°C (2 597°F).

Product Characteristics

Ultra fine particles
 Guards against galling and corrosion
 Protects against self-welding
 Withstands extreme pressure
 Up to 1 425°C (2 597°F)
Available Container Sizes: 250 g, 500 g,
 Aerosol, 20 l

Applications

Covers all industries
 Mechanical assembly of:
 bolts, studs, flanges, press fits
 valve stems, pump sleeves, screws,
 bushings, gaskets, bearings

 Meets MIL-A-907D
 NSF Registered
 772 Premium Anti-Seize—Nuclear certifiable



- Lubricates for assembly and disassembly
- Protects against corrosion
- No need for torque tension recalculation

Maintenance Specialities



Our high performance technologies are chemical tools designed to:

- Reduce the non-value added, repetitive maintenance functions
- Reduce the volume of chemicals used
- Reduce time for mechanical maintenance operations
- Improve the reliability of equipment
- Improve worker safety

Applications include:

- Thread sealing
- Rust penetrants
- Flange and casing sealing
- Cleaners and degreasers
- Metalworking fluids
- Corrosion control

PENETRATING OIL

706

Rustsolvo®

High-quality, fast acting, penetrating oil that reaches inaccessible areas and frees frozen nuts, bolts, and fittings without damaging the base metal.

Product Characteristics

Safe on plastic and painted surfaces
 Contains no glycols, alcohols, DMSO (dimethylsulfoxide) or chlorinated solvents
 Pleasant odour
 Creeps into microscopic spaces
Available Container Sizes: 1 l, 20 l, 208 l

NSF Registered

Applications

Use on all corroded or seized threaded assemblies in the harshest industrial environments



- Single function—optimizes performance
- Fast acting
- Safe to use

723 & 723 FG

Sprasolvo®

Fast acting, penetrating oil in a convenient, non-flammable propellant aerosol can. Excellent for hard to reach areas where rust, tar, grease, and dirt may prevent easy removal of nuts, bolts, and fittings.

Product Characteristics

Pinpoint spray
 Safe on plastic and painted surfaces
 Contains no acids or chlorinated solvents
 Creeps into microscopic spaces
Available Container Sizes: Aerosol

NSF Registered

723FG—Conforms to FDA standard
 21CFR 172.884, 178.3620, 178.3650

Applications

Use on all corroded or seized threaded assemblies in the harshest industrial environments
Note: FG designates a Food Grade Product



- Single function—optimizes performance
- Fast acting
- Safe to use

THREAD SEALING

800

GoldEnd® Tape

Heavy-duty, high density, tear resistant, mouldable, dry PTFE sealant tape for use on metal or plastic threads, pipes, or bolts.

Product Characteristics

-240°C (-400°F) to 260°C (500°F)
 Seals tightly and opens easily
 Non-aging, non-hardening
 Chemically resistant
 Requires fewer wraps
 Resists tearing and breakage
 Won't clog lines

Applications

Liquids: Steam, water, salt water, air, fuels, refrigerants, acids, alkalis, all solvents
Gases: Hydrogen, ammonia, oxygen, propane, butane, nitrogen
Other: Pneumatic and hydraulic fittings up to 690 bar (10 000 psi)
UL listed. Meets MIL-T-27730A. NSF Registered. DVGW approval No. 96.01e907. Acceptable for oxygen use



- Seals with 1 ½ to 2 wraps—virtually all chemicals
- Adjustable by 90°, no leakage
- No waste

FLANGE SEALING

860

Moldable Polymer Gasketing

Two-part, extrudable gasketing material allows for the creation of ultra-thin gaskets in any size, any shape. Never sticks to surfaces.

Product Characteristics

Resistance to oils, water, chemicals, and solvents
 Never sticks to surfaces
 Fills voids and scratches, up to 6 mm (1/4 inch) deep
 Remains elastic
 Temperatures up to 260°C (500°F)
 Steam to 6,8 kg/cm² (100 psi) and 170°C (338°F)

Applications

For sealing complex mechanical assemblies
 Gear boxes, inspection covers, bearing housings, fittings, oil sumps and reservoirs, turbine casings, electrical boxes, vacuum systems
NSF Registered. Conforms to FDA standard 21CFR 175.300 and 177.2600. Caution: Not for use in contact with concentrated acids or hot concentrated caustics



- Economical
- Creates gaskets any size and shape
- Ease of application—speeds up maintenance

WATER-BASED ALKALINE CLEANERS

803

Industrial and Marine Solvent II

A powerful, non-solvent based degreaser. Its advanced surfactant technology offers maximum efficiency in soil removal, especially applications where solvent use is required.

Product Characteristics

Cleaning dust, dirt, carbon black, petroleum based oils
 Phosphate-free, no EDTA or toxic solvents
 No irritating fumes
 Compatible with pressure washers and steam cleaners
Available Container Sizes: 3,8 l, 20 l, 208 l, 1 000 l

Applications

Covers all Industries
 Cleaning production equipment, facilities, floors, walls and steel structures

NSF Registered
Caution: Should not be used on aluminum or metals sensitive to high alkalinity. When using on painted surfaces, test small area for compatibility.



- Cost effective—highly concentrated—dilute with water to use
- Strong, fast acting
- Improves worker safety
- Biodegradable

360

Phosphate-Free Cleaner

Especially effective on animal fats and vegetable oils for the food industry; a versatile, industrial cleaner for environmentally sensitive areas.

Product Characteristics

Highly effective on animal fat and vegetable oil
High stable foam
Solvent-free
Available Container Sizes: 20 l, 208 l, 1 000 l

NSF Registered

Caution: Do not use on aluminum

Applications

Food, Pharmaceutical, and Beverage Industry
Meat and poultry plants
Bottling, canning, packaging machines
Waste water treatment
Floors, pump stations
Sludge and fungi removal
Marine
Decks, hulls, bilges
Industrial
Floors, walls, tiles, concrete
Machines



- Cost effective—highly concentrated—dilute with water to use
- Strong, fast acting
- Improves worker safety
- Environmentally friendly—biodegradable

820

KPC

Balances powerful performance with environmental compliance and worker safety—the ideal choice for process degreasing.

Product Characteristics

Effective on:
Oil deposits
Soot and exhaust residue
Lubricants and metal working fluids
Animal and vegetable fats
Low residue
No phosphates, harsh alkalis or EDTA
Available Container Sizes: 20 l, 208 l, 1 000 l

NSF Registered

Applications

Ideal for manual, dip tank, and ultrasonic cleaning
Effective for dip tank cleaning when heated to 82°C (180°F)



- Cost effective—highly concentrated—dilute with water to use
- Strong, fast acting, yet moderate pH
- Improves worker safety
- Environmentally friendly—biodegradable

218

HDP

Heavy-duty, concentrated, virtually non-foaming, liquid alkaline degreaser. Designed with the environment in mind, yet it handles tough degreasing applications.

Product Characteristics

Excellent rinsability
Corrosion inhibited
No silicones, toxic solvents, phosphates, or EDTA
Dye and fragrance free
Available Container Sizes: 20 l, 208 l, 1 000 l

NSF Registered

Applications

Spray booth washers
Floor scrubbers
High pressure washers
Steam cleaning equipment
Can be used in food plants
Note: Chesterton's 218 HDP can be used up to 82°C (180°F)



- Cost effective—highly concentrated—dilute with water to use
- Long lifetime in washing equipment
- Improves worker safety—no hazardous powder dust
- Environmentally friendly—biodegradable

235

SSC

Powerful cleaner removes oily and greasy deposits, waxes, loose paint, and heavy soils. Specially formulated for steam cleaning equipment.

Product Characteristics

Additives retard scale build-up and clogging of steam cleaning equipment
 Contains strong alkalis, emulsifiers, and surfactants
 No irritating fumes

Available Container Sizes: 20 l, 208 l

NSF Registered

Caution: Should not be used on aluminum or metals sensitive to high alkalinity. When using on painted surfaces, test small area for compatibility.

Applications

General
 Concrete
 Masonry
 Equipment (all types)



- Cost effective—highly concentrated—dilute with water to use
- Strong, fast acting
- Improves worker safety by removing slippery surfaces
- Biodegradable

WATER-BASED ACID CLEANERS

338

Super Rust Remover

Removes rust from ferrous metals, corrosion from aluminum, brightens copper, brass, stainless steel, and zinc—quickly and safely.

Product Characteristics

Removes metal oxide layer
 Brightens non-ferrous metals
 Leaves metal paint ready
 Rinses clean with water
 Short term corrosion protection

Available Container Sizes: 20 l, 208 l

Applications

General
 Metal prefinishing of Machined parts and metalwork
Maintenance
 Restores rusted inventories, Nuts/Bolts
 Threaded assemblies, Internal corrosion
 Shafts, Cast housings



- Cost effective—highly concentrated—dilute with water to use
- Inhibited to protect base metals
- Biodegradable

346

Descaler and Chemical Cleaner

Strong, acid based, multi-use liquid, formulated with metal protecting inhibitor for a wide range of applications.

Product Characteristics

Dissolves rust and scale while protecting base surface
 Concentrated hydrochloric base and additives

Available Container Sizes: 20 l, 208 l

Applications

Steam boiler tubes
 Condenser water systems
 Water circulating equipment
 Etches concrete



- Cost effective—highly concentrated—dilute with water to use
- Saves on labour, maintenance costs, and fuel consumption in heat transfer equipment
- Inhibited to protect base metals
- Biodegradable

NSF Registered

Caution: Not effective on grease, oil, and common soil. Not for use on aluminum, painted enamel, stainless steel, or decorative metals.



SOLVENT-BASED CLEANERS

274

Industrial Degreaser

A hard surface degreaser for industrial and marine environments.

Product Characteristics

Dissolves petroleum oil, grease, tar and other inorganic soils
Low odour, aromatic content
Does not attack metal, most paints, and plastics
Fast, penetrating action
Available Container Sizes: Aerosol, 3,8 l, 20 l, 208 l

Applications

Maintenance shops
Dip tanks
Hard surfaces
Machined parts
Recirculating and agitated parts washers

NSF Registered



- Cost-effective
- Low evaporation, long life-time, reduced consumption
- Improve worker safety
- High flash point

CONTACT CLEANERS

276

Electronic Component Cleaner

Fast evaporating, high performance, solvent based degreaser that does not contain ozone depleting solvents

Product Characteristics

Low residue
Non chlorinated
No ozone depleting materials
Available Container Sizes: Aerosol, 20 l, 208 l

Applications

Spray cleaning
Switches, controllers, panel meters
Circuit boards, contacts, levers
Control panels
Hard surface degreasing
Equipment, motors
Non-energized electrical equipment
Parts in process

NSF Registered



- Cleans quickly with a fast evaporation rate
- Does not attack plastic or metal

RECIRCULATING METALWORKING FLUIDS

372

Opticool Emulsified Oils

Opticool fluids are the newest line of emulsifiable machinery coolants. Emulsified coolants are ideal where lubrication is important and operations are severe.

Product Characteristics

Unique base oil technology
Extreme pressure capability
Minimizes rancidity and odours
Corrosion protection
Virtually eliminates adverse skin effects
Available Container Sizes: 20 l, 208 l, 1 000 l

Applications

Broaching, drilling, reaming
Tapping, threading, milling
Turning, grinding, stamping



- Long sump life
- Reduced purchases, disposal, and downtime costs
- Improves part finish and tool life

NON-RECIRCULATING METALWORKING FLUIDS

388

Synthetic Tapping Fluid

Safe, pure synthetic formula for machining operations performed at high-speed and feed rates, as well as manual or automatic single-shot cutting tool applications.

Product Characteristics

Ready to use
 Metal fines do not stick
 Can be used with aluminum, and aluminum alloys
 Does not smoke, fume or mist
 Essentially odourless
 Excellent lubricity and heat dissipation
Available Container Sizes: 475 ml, 20 l, 208 l

Applications

Tapping
 Boring
 Reaming
 Threading
 Drilling
 Milling
 May be used in mist applications



- Fluid, penetrates tight tolerances
- Improves part finish and tool life
- Biodegradable, contains no oil or solvents

CORROSION CONTROL

775

Moisture Shield

An efficient, clear, moisture-displacing and anti-corrosion protective film that protects metal parts and equipment for months.

Product Characteristics

Transparent film
 Excellent corrosion protection
 Penetrates fine tolerances
 High dielectric strength
 Protects new metal from corrosion
Available Container Sizes: Aerosol, 20 l, 208 l

Applications

Parts in process, transit, or storage
 Electrical systems
 Marine industry
 Drying out of wet electrical parts
Note: Where long term protection is desired use Chesterton's 740 Heavy Duty Rust Guard



- Short term corrosion protection
- Easily removable with Chesterton's water-based or solvent-based cleaners

Conforms to MIL-C-16173D corrosion preventative, Grade 3

740

Heavy Duty Rust Guard

This long-term, corrosion preventative coating provides heavy-duty metal protection for all areas constantly exposed to humidity and corrosive fumes—without critical surface preparation.

Product Characteristics

Self-healing, if scratched
 Transparent brown
Available Container Sizes: Aerosol, 3,8 l, 20 l, 208 l

Applications

Metal tools
 Parts in process
 Parts in storage
 Pumps
 Indoor structural steel
Note: Product can be easily removed with Chesterton's 276 Electronic Component Cleaner or 274 Industrial Degreaser



- Provides up to two years corrosion protection under sheltered outdoor conditions
- Does not peel or flake
- Excellent resistance to acid, alkali, and salt air fumes

Conforms to MIL-C-16173D, Grade 1 and 4



NSF Registered Products, A.W. Chesterton Company

This table provides general guidelines. For the most current listings and full descriptions of the category codes please visit www.NSF.org/usda/psncllistings.asp.

218 HDP	133943	A1	636 FG SLF220	147202	H1
235 SSC	133964	A4	651 Detergent Lubricating Oil (aerosol)	133928	H2
273 Electric Motor Cleaner	133975	K2	651 Detergent Lubricating Oil (bulk)	133946	H2
273 Electric Motor Cleaner (aerosol)	133976	K2	652 Pneumatic Lubricant and Conditioner	133944	H2
274 Industrial Degreaser	133955	C1, K1, K2	660 Silicone Lubricant (aerosol)	133970	H1
274 Industrial Degreaser (aerosol)	133949	C1, K1, K2	660 Silicone Lubricant (bulk)	133932	H1
276 Electronic Component Cleaner (aerosol)	133973	K2	662 FG Barrier Fluid 22	143837	H1
276 Electronic Component Cleaner (bulk)	133974	K2	690 FG Lubricant (aerosol)	133933	H1
277 Metal Surface Degreaser (aerosol)	134008	C1, K1	690 FG Lubricant (bulk)	133969	H1
277 Metal Surface Degreaser (bulk)	134007	C1, K1	706 Rustsolvo®	133942	H2
279 PCS	134012	K2	710 Anti-Seize Compound (bulk)	133958	H2
292 Precision Degreasing Solvent	134003	K1, K2, K3	715 Spraflex®	133938	H2
292 Precision Degreasing Solvent (aerosol)	134004	K1, K2, K3	715 Spraflex® (aerosol)	133934	H2
294 CSD	143867	C1, K1, K3	715 Spraflex® Gold	133930	H2
346 Descaler and Chemical Cleaner	133962	A3	715 Spraflex® Gold (aerosol)	133931	H2
3500 Valvelon®	134013	P1	723 FG Sprasolvo®	134006	H1
360 Phosphate-Free Cleaner	133961	A1, A4	723 Sprasolvo®	133939	H2
390 Cutting Oil (aerosol)	134947	H2, P1	725 Nickel Anti-Seize Compound	133959	H2
395 Tapping Lubricant	133935	H2	730 Spragrip®	133947	P1
438 PTFE Coating (aerosol)	133950	H2	775 Moisture Shield (aerosol)	134015	H2
601 Chain Drive Pin and Bushing Lubricant (aerosol)	133927	H2	785 FG Parting Lubricant	132237	H1
601 Chain Drive Pin and Bushing Lubricant (bulk)	133979	H2	785 Parting Lubricant	133960	H2
610 Synthetic Lubricating Fluid (aerosol)	133972	H2	787 Sliding Paste	133956	H2
610 Synthetic Lubricating Fluid (bulk)	133971	H2	800 GoldEnd® Tape	134016	H1, P1
615 High Temperature Grease	133940	H2	801 Industrial and Marine Solvent	133965	A1, A4, A8
615 HTG #1	133941	H2	803 Industrial and Marine Solvent II	133966	A1
622 White Grease	133929	H1	860 Moldable Polymer Gasketing (cartridge)	134017	P1
625 CXF Corrosion Resistant, Extreme Pressure Food Grade Grease	138414	H1	860 Moldable Polymer Gasketing Curing Agent	134018	P1
629 High Temperature White Grease	133936	H1	900 GoldEnd® Paste	133957	H2, P1
630 SXCF	142462	H1	KPC 820	133963	A1
630 SXCF Synthetic Extreme Pressure Corrosion Resistant Food Grade Grease	138415	H1			

A WORLD OF PROTECTION

Industry faces adverse environmental conditions that attack components and structures which can result in compromised plant reliability, safety, and lost profits. Chesterton's ARC coatings provide superior performance against erosion, corrosion, abrasion, and chemical attack to both metal and concrete surfaces. You can rely on Chesterton's low VOC, 100% solids ARC protective linings to protect these surfaces in your industrial environment.

ARC Metal Composite Systems repair, rebuild, and protect all types of industrial process equipment and structures from abrasive, corrosive, and chemically aggressive environments.

- Provide long-term protection
- Extend equipment life
- Cut downtime
- Reduce the need for spare parts
- Simplify maintenance procedures

ARC Concrete Composite Systems repair, rebuild, and protect all concrete structures from abrasive, corrosive, and chemically aggressive environments.

- Provide long-term protection
- Avoid costly structural rebuild
- Reduce safety and environmental hazards
- Simplify maintenance procedures
- Cut downtime



Composite Coatings Application Guide

These tables provide general guidelines for ARC composite product selection. Detailed product performance data can be found on product-specific data sheets and ARC chemical resistance guides.

Metal Composite Systems

✓+ = Best Choice ✓ = Good Choice

	Specialty Composites		Erosion Resistant			Corrosion, Erosion, and Chemical Attack							Abrasion Resistant				
	Patching/Repair/Rebuild	Machinable	Erosion/Corrosion Aqueous Solution	Erosion/Corrosion Mild Chemical	Erosion/Corrosion Elevated Temperature	Corrosion/Moderate Chemical	Corrosion/Harsh Chemical (Acid) Inorganic	Corrosion/Harsh Chemical (Acid) Organic and Bleaching Chemicals	Corrosion/Harsh Chemical (Alkalines)	Corrosion Flue Gases	Potable Water Low Flow	Potable Water High Flow	Mild Sliding Abrasion	Moderate Sliding Abrasion	Severe Sliding Abrasion	Severe Sliding Abrasion/Harsh Chemical	Impact Abrasion
	<div style="display: flex; justify-content: space-between; font-size: small;"> <50°C (<120°F) 50 to 70°C (120 to 160°F) 70 to 90°C (160 to 195°F) 90 to 110°C (195 to 230°F) 110 to 130°C (230 to 265°F) 130 to 180°C (265 to 355°F) </div>																
855			✓+	✓+	✓+	✓+					✓	✓+	✓				
858	✓+	✓	✓+	✓+	✓								✓				
HT-T/HT-S			✓+	✓	✓+				✓+				✓				
S1/S1HB			✓	✓		✓+	✓										
S2			✓+	✓+	✓	✓+	✓			✓	✓+	✓					
S4+						✓+	✓+		✓								
982							✓			✓+							
S7						✓+	✓+	✓+		✓+							
890												✓	✓+				✓
IBX1												✓	✓+				✓+
897												✓+	✓				✓

Concrete Composite Systems

	Pitching Grout	Grading Grout	Forming Grout	Chemical Process Spill Areas	Machine/Mechanical Room Floors	Clean Room Floors	Plating Rooms	Traffic Aisles	Food Processing/Packaging	Interior Chemical Containment	Exterior Chemical Containment	Floor Drains	Battery Charger Rooms	Locker/Shower Rooms	Broadcastable, Non-Slip Surfaces	Bottling Lines	Pump Bases	Fabrication/Manufacturing Floors	Manholes/Septic Systems
791*	✓+	✓+		✓+	✓		✓+	✓	✓	✓+	✓+	✓+	✓+			✓+	✓+	✓+	✓+
988*				✓+	✓+		✓+	✓	✓	✓+	✓+	✓+	✓+				✓+	✓+	
NVE*				✓+	✓+		✓+	✓	✓	✓+	✓+	✓+	✓+				✓+	✓+	
CS2**				✓+	✓+	✓	✓+	✓	✓	✓+	✓	✓+	✓+	✓	✓	✓	✓+	✓	✓
CS4**				✓+	✓+	✓+	✓+		✓+	✓+	✓+	✓+	✓+	✓+	✓+	✓+	✓+	✓+	
NVE VC**				✓+	✓+	✓+	✓+		✓+	✓+	✓+	✓+	✓+	✓+	✓+	✓+	✓+	✓+	

*Are resurfacing composites for mechanical and chemical exposures

**Are thin film composites for chemical protection

Moderate Chemical

Severe Chemical

EROSION RESISTANT COMPOSITES FOR METALS

ARC 855

Abrasion Control Liquid

An advanced liquid, ceramic composite that is formulated to protect equipment from aggressive chemical attack, corrosion, and erosion.

Product Characteristics

Two-coat system
Easily applied by brush or roller
Minimum thickness of 250 µm (10 mils) per coat

Applications

Fans and housings
Heat exchangers
Waterboxes
Pump casings and impellers
Screws
Condensers
Tanks and vessels
Valves

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 120°C (250°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 65°C (150°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Salt Fog	>10 000 hrs
Available Sizes	1 kg, 4,5 kg, 15 l (25,6 kg)



- Improves fluid flow efficiency
- Extends equipment life
- Cuts downtime
- Reduces the need for spare parts

ARC 858

Abrasion Control Compound

An advanced, trowelable ceramic composite for the repair and protection of all metal surfaces subjected to erosion, corrosion, and chemical attack.

Product Characteristics

Applied by trowel or spatula
Normally applied at a thickness of 1,5 mm (60 mils) or more

Applications

Pump casings and impellers
Fans and housings
Pipe elbows
Screws
Pitted tanks and pipes
Heat exchangers
Valves

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 160°C (320°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 70°C (160°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Available Sizes	250 g, 400 cc, 1 kg, 4,5 kg, 15 l (24,8 kg)



- Rebuilds damaged equipment
- Repairs and smooths pitted surfaces
- Able to be top coated with other ARC Composites



ARC HT-T, HT-S

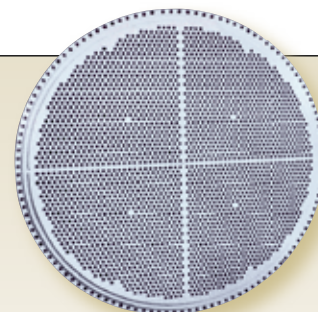
HT-T—Spark-Testable, High-Temperature, Trowelable Abrasion Control Compound.

HT-S—Spark-Testable, High-Temperature, Sprayable Abrasion Control Liquid.

An advanced ceramic composite that is formulated to protect equipment from corrosion and erosion in elevated temperature immersion of aqueous solutions.

Product Characteristics	Applications
HT-T – Applied at a nominal thickness of 900 to 1150 µm (35 to 45 mils) by trowel or plastic applicator	Hydrocyclones Heat exchangers Pump volutes and impellers
HT-S – Easily applied by spray, brush, or roller Minimum thickness of 250 µm (10 mils) per coat	Condensate pumps Tanks Valves Offshore equipment

Technical Data	
Dry Temperature HT-T (Min/Max)	-29°C (-20°F) to 150°C (302°F)
Wet Temperature HT-T (Min/Max)	-29°C (-20°F) to 110°C (230°F)
Dry Temperature HT-S (Min/Max)	-29°C (-20°F) to 175°C (347°F)
Wet Temperature HT-S (Min/Max)	-29°C (-20°F) to 150°C (302°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Available Sizes	4 l, 16 l



- Extends equipment life
- Spark testable for pinhole—free verification
- Reduces downtime
- Cures in service

COMPOSITES FOR CORROSION, EROSION, AND CHEMICAL ATTACK

ARC S1/S1HB

General Purpose, Sprayable, Corrosion Protection Coating

An advanced, liquid composite formulated to protect metal surfaces from corrosion and chemical attack.

Product Characteristics	Applications
ARC S1 Two-coat system Easily applied by spray, brush or roller Minimum thickness of 250 µm (10 mils) per coat	Structural steel Cooling water systems Pipeline coatings Service water systems Wastewater structures Tanks
ARC S1HB—High Build System Easily applied by spray, brush, or roller at a thickness of 1 to 2 mm (40 to 80 mils) per coat. May be applied to concrete.	

Technical Data	
Dry Temperature (Min/Max)	-29°C (-20°F) to 80°C (175°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 52°C (125°F)
Tensile Adhesion (metal) - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Salt Fog	>10 000 hrs
Available Sizes	S1 - 4 l, 16 l S1HB - 60 l, 600 l



- Low permeability provides long-term protection
- Spark testable for pinhole—free verification
- Sprayable viscosity for rapid installation

COMPOSITES FOR CORROSION, EROSION, AND CHEMICAL ATTACK FOR METALS

ARC S2

Ceramic-Reinforced, Sprayable, Erosion-Resistant Coating

An advanced, liquid ceramic reinforced composite for the protection of all metal surfaces subject to erosive, corrosive, and severe fluid flow conditions.

Product Characteristics

Two-coat system
Easily applied by spray, brush, or roller
Minimum thickness of 250 µm (10 mils) per coat

Applications

Fans and housings
Heat exchangers
Cooling water systems
Hoppers
Tank linings
Scrubber systems
Pump and valve assemblies
Pipeline coatings

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 80°C (175°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 52°C (125°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Salt Fog	>20 000 hrs
Available Sizes	1125 ml (cartridge), 2 kg, 12 kg, 15 l (22,9 kg)



- Improves fluid flow efficiency
- Extends equipment life
- Sprayable viscosity for rapid installation
- Spark testable for pinhole—free verification

ARC S4+

100% Solids, Mineral-Reinforced, Epoxy Novolac, Acid Resistant Coating

An advanced, liquid polymer composite formulated to protect equipment from extreme chemical attack and corrosion.

Product Characteristics

Two-coat system
Easily applied by spray, brush, or roller
Minimum thickness of 375 µm (15 mils) per coat

Applications

Chemical storage tanks
Chimneys and stacks
Exhaust gas ductwork
Fans and housings
Heat exchangers
Tank linings
Structural steel

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 150°C (300°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 60°C (140°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Salt Fog	>10 000 hrs
Available Sizes	1125 ml (cartridge), 4 l, 16 l



- Provides long term protection
- Low permeability for immersion conditions
- Sprayable viscosity for rapid installation
- Spark testable for pinhole—free verification

ARC 982

100% Solids, Epoxy Novolac, Acid Resistant Coating

An advanced polymer composite formulated to protect equipment from extreme chemical attack and corrosion.

Product Characteristics

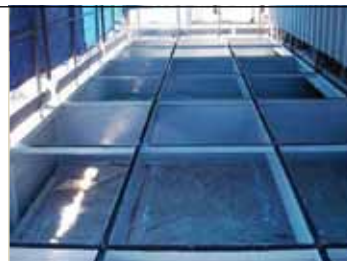
Two-coat system
Easily applied by spray, brush or roller
Minimum thickness of 375 µm (15 mils) per coat

Applications

Chemical storage tanks
Chimneys and stacks
Exhaust gas ductwork
Fans and housings
Heat exchangers
Tanks and piping
Reaction vessels

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 175°C (350°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 70°C (160°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 193 - 19 (2 750)
Salt Fog	>7 500 hrs
Available Sizes	1 kg, 15 l (17,9 kg)



- Provides long-term protection
- Extends equipment life
- Resists elevated temperature exposures
- Spark testable for pinhole—free verification

ARC S7

High-Temperature and Chemical-Resistant, Epoxy Novolac Vinyl Ester Coating

A low VOC, epoxy novolac vinyl ester-based coating intended for high temperature exposures in chemically aggressive applications where the risk for thermal cycling and shock may be present.

Product Characteristics

Two-coat system
Applied via conventional airless spray systems, brush, or roller
Wet film thickness of 0,25 to 0,5 mm (10 to 20 mils) per coat

Applications

Flue gas ducts
Heat exchangers
Quench zones
Flue gas particulate filters
Chemical reactors
Chemical storage and process tanks

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 180°C (355°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 135°C (275°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 14 (2 000)
Available Sizes	14 l



- Extends asset life
- Provides long-term protection
- Easily applied for rapid installation
- Spark testable for pinhole—free verification

ABRASION RESISTANT COMPOSITES FOR METALS

ARC 890/897

890—Coarse Grade, Sliding Wear Compound

897—Fine Grade, Sliding Wear Compound

An advanced, ceramic-reinforced composite for the repair and protection of all metal surfaces subjected to severe abrasion and erosion/corrosion.

Product Characteristics

High volumetric ceramic particle loading
Applied by trowel or plastic applicator tool
890 - Applied at a nominal thickness of 6 mm (1/4 in) or more
897 - Applied at a nominal thickness of 3 mm (1/8 in) or more

Applications

Separators and cyclones
Hoppers/Chutes
Coal pulverizers
Hydro pulpers
Wear plates
Slurry pumps
Pipe elbows
Pulverized fuel lines
Screws



- Reduces the need for spare parts
- Simplifies maintenance procedures
- Extends equipment life
- Improves safety by reducing hotwork

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 205°C (400°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 95°C (205°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 123 - 12 (1 750)
Available Sizes	ARC 890: 2 kg, 6 kg, 15 l (34,6 kg) ARC 897: 1 kg, 6 kg, 15 l (33 kg)

ARC I BX1

Impact and Wear Resistant Epoxy Composite

I BX1 is a urethane modified amine cured epoxy composite, highly reinforced with ceramic beads and flakes for resistance to severe sliding abrasion where impact forces or rapid vibration is a concern.

Product Characteristics

High volumetric ceramic particle loading
Applied by trowel or plastic applicator tool
Applied at a nominal thickness of 6 mm (1/4 inch) or more

Applications

Hoppers and chutes
Slurry pumps
Pipes and pipe elbows
Pneumatic conveyors
Pulverizers and impact zones



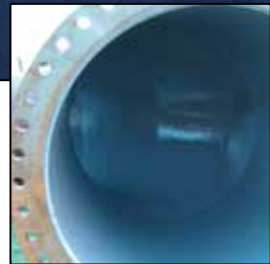
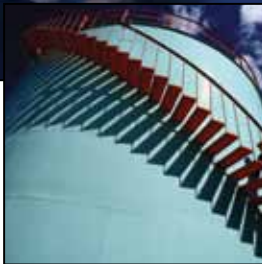
- High impact resistance
- Reduces the need for spare parts
- Simplifies maintenance procedures
- Extends equipment life
- Improves safety by reducing hotwork

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 205°C (400°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 95°C (205°F)
Tensile Adhesion - kg/cm ² - MPa (psi)	Greater than 140 - 13,7 (2 000)
Available Sizes	20 kg, 12 x 20 kg



WE'VE GOT YOU COVERED



When your critical equipment and structures are subject to abrasion, erosion, corrosion and chemical attack, Chesterton® ARC® Composite Coatings are there to protect them



Equipment and structures in today's power plants have to operate in environmental conditions that aggressively attack metallic and cementitious surfaces, resulting in compromised performance, run time as well as safety. When your power plant's operation is at stake you need to rely on the company that understands the strength of a great product line is only as good as the knowledge and capability of the sales and service organization behind it.

For more information visit at www.chesterton.com/arc



RESURFACING COMPOSITES FOR CONCRETE

ARC 791

100% Solids, Novolac Resin Blend, Trowel-Applied, Quartz Reinforced Concrete Resurfacer

A quartz reinforced composite that is designed to resurface and restore concrete surfaces, to protect new concrete, and to repair concrete damaged by chemical and physical abuse.

Product Characteristics

Trowelable overlayment
 Applied at minimum thickness of 6 mm (1/4")
 Can be applied to damp concrete
 Non-shrinking, no solvents, 100% solids
 Colours: Grey

Applications

Chemical containment
 Floor drains and sumps
 Process floor
 Equipment bedding
 Pump bases/grouting
 Structural support columns

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 93°C (200°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 65°C (150°F)
Compressive Strength - kg/cm ² - MPa (psi)	760 - 75 (10 800)
Tensile Adhesion to Concrete - kg/cm ² - MPa (psi)	Greater than 28 - 2,8 (400)
Available Sizes	System Kit, Bulk Kit



- Low maintenance overlayment
- Provides long term protection
- Avoids costly structural rebuild
- Easily applied to vertical surfaces/non-sagging

ARC 988

Highly Chemically Resistant, 100% Solids, Pure Novolac Resin Based, Trowel Applied, Quartz Reinforced Concrete Resurfacer

A high-performance, quartz reinforced composite that is designed to resurface and restore concrete surfaces, to protect new concrete, and to repair concrete damaged by severe chemical and physical abuse.

Product Characteristics

Trowelable overlayment
 Applied at minimum thickness of 6 mm (1/4")
 Can be applied to damp concrete
 Non-shrinking, no solvents, 100% solids
 Colours: Grey, Red

Applications

Chemical containments
 Equipment bases
 Secondary containment areas
 Sumps, trenches and neutralization tanks

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 93°C (200°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 65°C (150°F)
Compressive Strength - kg/cm ² - MPa (psi)	1 000 - 98 (14 800)
Tensile Adhesion to Concrete - kg/cm ² - MPa (psi)	Greater than 28 - 2,8 (400)
Available Sizes	System Kit, Bulk Kit



- Low maintenance overlayment
- Provides long term protection
- Avoids costly structural rebuild
- Reduces safety hazard caused by damaged concrete
- Easily applied to vertical surfaces/non-sagging



THIN FILM COMPOSITES FOR CONCRETE

ARC CS2/CS4

CS2—General Purpose, Thin Film, Novolac Blend, Epoxy Coating

CS4—Highly Chemically Resistant, 100% Novolac Resin, Epoxy Coating

Thin film, advanced composites that are formulated to protect concrete surfaces
CS2 is used for mild chemical attack, and CS4 for harsh chemical attack.

Product Characteristics

Easily applied by notched squeegee, brush, roller, or spray equipment
Can be applied to damp concrete
High gloss surface
Non-shrinking, no solvents, 100% solids
Minimum thickness of 250 to 375 µm (10 to 15 mils) per coat
Colors: CS2 grey, CS4 red

Applications

Concrete tanks, Chemical tanks
Water intakes and dams
Secondary containment
Process floor areas
Cooling towers
Chemical plant floors
Floor drains, sumps
Drainage troughs
Equipment bases



- Provides long term protection
- Avoids costly structural rebuild
- Reduces safety hazard caused by damaged concrete

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 80°C (175°F)
Wet Temperature (Min/Max)	CS2: -29°C (-20°F) to 52°C (125°F) CS4: -29°C (-20°F) to 40°C (105°F)
Compressive Strength - kg/cm ² - MPa (psi)	CS2: 680 - (9 650), CS4: 970 - (13 750)
Tensile Adhesion to Concrete - kg/cm ² - MPa (psi)	CS2: Greater than 28-2,8 (400) CS4: Greater than 28-2,8 (400)
Available Sizes	16 l

ARC NVE System

High-Temperature and Chemical Resistant, Epoxy Novolac Vinyl Ester Coating

A modified novolac vinyl ester lining system intended for high temperature exposures ion chemically aggressive applications. The product may be applied as a high build system or thin film system.

Product Characteristics

Thin film - NVE VC (Veil Coat)
Applied at minimum thickness of 250-375 µm
Colors: Red
High build - NVE TC (Top Coat)
Applied at minimum thickness of 3 mm (1/8") - 6 mm (1/4")
Color: Red

Applications

Process floors
Secondary containments
Trenches, drains and sumps
Tanks
Pipelines



- Provides long term protection
- Avoids costly structural rebuild
- Reduces safety hazard caused by damaged concrete

Technical Data

Dry Temperature (Min/Max)	-29°C (-20°F) to 200°C (392°F)
Wet Temperature (Min/Max)	-29°C (-20°F) to 135°C (275°F)
Compressive Strength - kg/cm ² - MPa (psi)	NVE TC (High Build System): 446 - 44 (6 360)
Tensile Adhesion to Concrete - kg/cm ² - MPa (psi)	Greater than 28 - 2,8 (400)
Available Sizes	System Kit

Ancillary Products



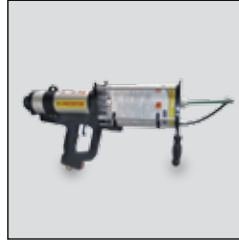
803

Powerful water-based alkaline cleaner to remove oil and grease from metal and concrete surfaces.
Go to page 56.



277 – Metal Surface Degreaser

A fast-acting, low residue, non-chlorinated industrial strength degreaser designed to remove oils, greases, dirt and dust.
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ARC High Solids Spray System

Simple and efficient way to reliably spray selected ARC composites.
Go to www.chesterton.com.

PACKING AND GASKETS ORDERING INFORMATION

553 Environmental Gasket (Dim; T)****

1 500 x 1 500 mm; 0.5 mm	290234
1 500 x 1 500 mm; 1 mm	290235
1 500 x 1 500 mm; 1.5 mm	290236
1 500 x 1 500 mm; 2 mm	290237
1 500 x 1 500 mm; 3 mm	290238

455EU General Service Gasket Sheet (Dim; T)****

1 500 x 1 500 mm; 0.5 mm	290200
1 500 x 1 500 mm; 1 mm	290201
1 500 x 1 500 mm; 1.5 mm	290202
1 500 x 1 500 mm; 2 mm	290203
1 500 x 1 500 mm; 3 mm	290204

557 Performance Gasket Sheet (Dim; T)****

1 500 x 1 500 mm; 0.5 mm	290205
1 500 x 1 500 mm; 1 mm	290206
1 500 x 1 500 mm; 1.5 mm	290207
1 500 x 1 500 mm; 2 mm	290208
1 500 x 1 500 mm; 3 mm	290209

1400R Carbon Reinforced Graphite Packing (CS; W; L)**

3,2 mm; 0,91 kg*; 57,91 m	000924
4,8 mm; 0,91 kg*; 18,29 m	000926
6 mm; 0,91 kg*; 15,85 m	000927
6,4 mm; 0,91 kg*; 14,02 m	000937
6,4 mm; 2,27 kg*; 35,05 m	000941
8 mm; 0,91 kg*; 11,28 m	001054
8 mm; 2,27 kg*; 28,04 m	001055
9,5 mm; 0,91 kg*; 8,23 m	000943
9,5 mm; 2,27 kg*; 20,42 m	000944
9,5 mm; 3,18 kg*; 28,65 m	000946
10 mm; 0,91 kg*; 7,92 m	000947
10 mm; 2,27 kg*; 20,12 m	000949
11,1 mm; 0,91 kg*; 6,4 m	000950
11,1 mm; 2,27 kg*; 15,85 m	000952
12 mm; 0,91 kg*; 5,79 m	000953
12 mm; 2,27 kg*; 14,63 m	000955
12,7 mm; 0,91 kg*; 5,18 m	000956
12,7 mm; 2,27 kg*; 12,8 m	000958
12,7 mm; 3,18 kg*; 17,68 m	000959
14,3 mm; 2,27 kg*; 10,06 m	001056
14,3 mm; 3,18 kg*; 14,02 m	001057
15,9 mm; 3,18 kg*; 10,67 m	001058
17,5 mm; 3,18 kg*; 10,06 m	001059
19,1 mm; 3,18 kg*; 8,23 m	001071
20,6 mm; 3,18 kg*; 6,71 m	001092
22,2 mm; 3,18 kg*; 6,1 m	001093
23,8 mm; 3,18 kg*; 4,27 m	001095
25,4 mm; 3,18 kg*; 3,96 m	001096

1600 Advanced Valve Stem Packing (CS; W; L)**

3,2 mm; 0,91 kg*; 40,23 m	035002
4 mm; 0,91 kg*; 27,74 m	035004
4,8 mm; 0,91 kg*; 19,81 m	035006
6 mm; 0,91 kg*; 15,85 m	035008
6,4 mm; 0,91 kg*; 12,19 m	035010
6,4 mm; 2,27 kg*; 30,48 m	035011
8 mm; 0,91 kg*; 8,53 m	035013
8 mm; 2,27 kg*; 21,64 m	035014
9,5 mm; 0,91 kg*; 5,79 m	035016
9,5 mm; 2,27 kg*; 14,94 m	035017
9,5 mm; 4,54 kg*; 29,57 m	035018
10 mm; 0,91 kg*; 5,49 m	035020
10 mm; 2,27 kg*; 13,72 m	035021
11,1 mm; 0,91 kg*; 4,27 m	035023
11,1 mm; 2,27 kg*; 10,36 m	035024
12 mm; 2,27 kg*; 9,14 m	035026
12,7 mm; 0,91 kg*; 3,35 m	035028
12,7 mm; 2,27 kg*; 8,53 m	035029
12,7 mm; 4,54 kg*; 17,07 m	035030
14,3 mm; 2,27 kg*; 7,01 m	035032
14,3 mm; 4,54 kg*; 13,72 m	035033
15,9 mm; 4,54 kg*; 10,97 m	035035
17,5 mm; 4,54 kg*; 9,45 m	035037
19,1 mm; 4,54 kg*; 7,92 m	035039
22,2 mm; 4,54 kg*; 5,79 m	035041
25,4 mm; 4,54 kg*; 4,57 m	035043

1830-SSP Slurry Packing (CS; W; L)**

9,5 mm; 0,91 kg*; 7,01 m	052605
9,5 mm; 2,27 kg*; 17,37 m	052606
9,5 mm; 4,54 kg*; 34,75 m	052607
10,0 mm; 0,91 kg*; 5,18 m	052608
10,0 mm; 2,27 kg*; 13,41 m	052609
11,1 mm; 0,91 kg*; 4,57 m	052610
11,1 mm; 2,27 kg*; 11,58 m	052611
12,0 mm; 0,91 kg*; 4,27 m	052612
12,0 mm; 2,27 kg*; 10,67 m	052613
12,7 mm; 0,91 kg*; 3,96 m	052614
12,7 mm; 2,27 kg*; 10,06 m	052615
12,7 mm; 4,54 kg*; 19,81 m	052616
14,3 mm; 2,27 kg*; 7,62 m	052617

14,3 mm; 4,54 kg*; 15,54 m	052618
15,9 mm; 4,54 kg*; 11,28 m	052619
17,5 mm; 4,54 kg*; 9,75 m	052620
19,1 mm; 4,54 kg*; 8,23 m	052621
20,0 mm; 4,54 kg*; 7,62 m	052622
20,6 mm; 4,54 kg*; 7,32 m	052623
22,2 mm; 4,54 kg*; 7,01 m	052624
23,8 mm; 4,54 kg*; 6,10 m	052625
25,4 mm; 4,54 kg*; 5,18 m	052626

1622 Low Emissions Valve Packing (CS; Valves/boxes; W; Ø)***

3,2 mm; 83 Valves/boxes; 0,45 kg; 12,7 Ø stem mm	054700
4 mm; 121 Valves/boxes; 0,91 kg; 15 Ø stem mm	054704
4,8 mm; 59 Valves/boxes; 0,91 kg; 15,9 Ø stem mm	054701
6 mm; 31 Valves/boxes; 0,91 kg; 25 Ø stem mm	054702
6,4 mm; 73 Valves/boxes; 2,27 kg; 22,2 Ø stem mm	054703
8 mm; 39 Valves/boxes; 2,27 kg; 31,8 Ø stem mm	054705
9,5 mm; 22 Valves/boxes; 2,27 kg; 41,3 Ø stem mm	054707
10 mm; 24 Valves/boxes; 2,27 kg; 40 Ø stem mm	054711
11,1 mm; 14 Valves/boxes; 2,27 kg; 50,8 Ø stem mm	054713
12 mm; 9 Valves/boxes; 2,27 kg; 70 Ø stem mm	054715
12,7 mm; 8 Valves/boxes; 2,27 kg; 69,9 Ø stem mm	054716
14,3 mm; 6 Valves/boxes; 2,27 kg; 82,6 Ø stem mm	054719
15,9 mm; 4 Valves/boxes; 2,27 kg; 101,6 Ø stem mm	054721
17,5 mm; 3 Valves/boxes; 2,27 kg; 127 Ø stem mm	054722

1724 PTFE Valve Packing (CS; W; L)**

3,2 mm; 0,91 kg*; 46,94 m	003260
4 mm; 0,91 kg*; TBD m	003261
4,8 mm; 0,91 kg*; 22,56 m	003262
6 mm; 0,91 kg*; 15,24 m	003263
6,4 mm; 0,91 kg*; 11,58 m	003264
6,4 mm; 0,91 kg*; 28,96 m	003273
8 mm; 0,91 kg*; 8,23 m	003265
8 mm; 2,27 kg*; 20,73 m	003274
9,5 mm; 0,91 kg*; 5,79 m	003266
9,5 mm; 2,27 kg*; 14,63 m	003275
9,5 mm; 4,54 kg*; 29,26 m	003281
10 mm; 0,91 kg*; 5,18 m	003267
10 mm; 2,27 kg*; 13,41 m	003276
11,1 mm; 0,91 kg*; 4,57 m	003268
11,1 mm; 2,27 kg*; 11,28 m	003277
12 mm; 0,91 kg*; 3,96 m	003269
12 mm; 2,27 kg*; 9,75 m	003278
12,7 mm; 0,91 kg*; 3,35 m	003270
12,7 mm; 2,27 kg*; 8,23 m	003279
12,7 mm; 4,54 kg*; 16,46 m	003283
14,3 mm; 2,27 kg*; 6,71 m	003280
14,3 mm; 4,54 kg*; 13,41 m	003284
15,9 mm; 4,54 kg*; 10,36 m	003285
17,5 mm; 4,54 kg*; 9,14 m	003286
19,1 mm; 4,54 kg*; 7,62 m	003287
20,6 mm; 4,54 kg*; 6,71 m	003288
22,2 mm; 4,54 kg*; 6,1 m	003289
23,8 mm; 4,54 kg*; 5,79 m	003293
25,4 mm; 4,54 kg*; 5,18 m	003294

1730 General Service Packing (CS; W; L)**

6 mm; 0,91 kg*; 18,29 m	000637
6,4 mm; 0,91 kg*; 15,24 m	000638
6,4 mm; 2,27 kg*; 38,1 m	000691
8 mm; 0,91 kg*; 9,75 m	000692
8 mm; 2,27 kg*; 24,38 m	000693
9,5 mm; 2,27 kg*; 17,07 m	000694
9,5 mm; 4,54 kg*; 34,14 m	000695
10 mm; 0,91 kg*; 6,1 m	000696
10 mm; 2,27 kg*; 15,54 m	000697
11,1 mm; 2,27 kg*; 12,5 m	000698
12 mm; 0,91 kg*; 4,27 m	000702
12 mm; 2,27 kg*; 10,67 m	000703
12,7 mm; 2,27 kg*; 9,75 m	000704
12,7 mm; 4,54 kg*; 19,51 m	000705
14,3 mm; 2,27 kg*; 7,01 m	000706
14,3 mm; 4,54 kg*; 13,72 m	000932
15,9 mm; 4,54 kg*; 11,28 m	000933
17,5 mm; 4,54 kg*; 10,36 m	000934
19,1 mm; 4,54 kg*; 8,53 m	000935
20,6 mm; 4,54 kg*; 6,4 m	001182
22,2 mm; 4,54 kg*; 5,49 m	001183
25,4 mm; 4,54 kg*; 4,27 m	001184

1760 Chemical Packing (CS; W; L)**

3,2 mm; 0,91 kg*; 35,66 m	008360
4,8 mm; 0,91 kg*; 21,34 m	008362
6 mm; 0,91 kg*; 14,94 m	008363
6,4 mm; 0,91 kg*; 12,8 m	008364
6,4 mm; 2,27 kg*; 32 m	008373
8 mm; 0,91 kg*; 9,45 m	008365
8 mm; 2,27 kg*; 23,47 m	008374
9,5 mm; 0,91 kg*; 6,4 m	008366
9,5 mm; 2,27 kg*; 16,15 m	008375
9,5 mm; 4,54 kg*; 32 m	008381
10 mm; 0,91 kg*; 5,49 m	008367

10 mm; 2,27 kg*; 13,72 m	008376
11,1 mm; 0,91 kg*; 4,27 m	008368
11,1 mm; 2,27 kg*; 10,67 m	008377
12 mm; 0,91 kg*; 3,96 m	008369
12 mm; 2,27 kg*; 9,75 m	008378
12,7 mm; 0,91 kg*; 3,66 m	008370
12,7 mm; 2,27 kg*; 9,45 m	008379
12,7 mm; 4,54 kg*; 18,59 m	008383
14,3 mm; 2,27 kg*; 6,1 m	008380
15,9 mm; 4,54 kg*; 9,14 m	008385
17,5 mm; 4,54 kg*; 8,53 m	008386
19,1 mm; 4,54 kg*; 8,23 m	008387
20,6 mm; 4,54 kg*; 7,01 m	008388
22,2 mm; 4,54 kg*; 5,18 m	008389
25,4 mm; 4,54 kg*; 3,05 m	008394

1765 White Chemical Packing for Rotating Equipment (CS;W;L)**

6,4 mm; 0,91 kg*; 15,43 m	051172
6,4 mm; 2,27 kg*; 38,57 m	051173
7,9 mm; 0,91 kg*; 10,06 m	051174
7,9 mm; 2,27 kg*; 25,15 m	051175
9,5 mm; 0,91 kg*; 7,07 m	051176
9,5 mm; 2,27 kg*; 17,68 m	051177
10,0 mm; 0,91 kg*; 5,73 m	051178
10,0 mm; 2,27 kg*; 14,33 m	051179
11,1 mm; 2,27 kg*; 11,4 m	051180
12,0 mm; 2,27 kg*; 10,93 m	051181
12,7 mm; 0,91 kg*; 3,9 m	051182
12,7 mm; 2,27 kg*; 9,76 m	051183
12,7 mm; 4,54 kg*; 19,51 m	051184
14,3 mm; 2,27 kg*; 8,08 m	051185
15,9 mm; 4,54 kg*; 9,76 m	051186
19,1 mm; 4,54 kg*; 7,77 m	051187
20,6 mm; 4,54 kg*; 7,47 m	051188
22,2 mm; 4,54 kg*; 6,4 m	051189
25,4 mm; 4,54 kg*; 3,81 m	051190

1830 Advanced Expanded Graphite PTFE Packing (CS; W; L)**

4,8 mm; 0,91 kg*; 26,52 m	175910
6,4 mm; 0,91 kg*; 12,19 m	175911
6,4 mm; 2,27 kg*; 30,78 m	175912
8 mm; 0,91 kg*; 9,14 m	175913
8 mm; 2,27 kg*; 22,86 m	175914
9,5 mm; 0,91 kg*; 5,79 m	175915
9,5 mm; 2,27 kg*; 14,33 m	175916
9,5 mm; 4,54 kg*; 28,35 m	175917
10 mm; 0,91 kg*; 5,24 m	175918
10 mm; 2,27 kg*; 13,11 m	175919
11,1 mm; 0,91 kg*; 4,57 m	175920
11,1 mm; 2,27 kg*; 11,58 m	175921
12 mm; 0,91 kg*; 3,84 m	175922
12 mm; 2,27 kg*; 9,60 m	175923
12,7 mm; 0,91 kg*; 3,35 m	175924
12,7 mm; 2,27 kg*; 8,23 m	175925
12,7 mm; 4,54 kg*; 16,46 m	175926
14,3 mm; 2,27 kg*; 6,86 m	175927
14,3 mm; 4,54 kg*; 13,72 m	175928
15,9 mm; 4,54 kg*; 11,58 m	175929
17,5 mm; 4,54 kg*; 9,45 m	175930
19,1 mm; 4,54 kg*; 7,92 m	175931
20 mm; 4,54 kg*; 7,29 m	175932
22,2 mm; 4,54 kg*; 5,79 m	175933
23,8 mm; 4,54 kg*; 5,18 m	175934
25,4 mm; 4,54 kg*; 4,27 m	175935

Duragraft F Expanded Graphite Sheet (Dim; T)****

1 500 x 1 500 mm; 1 mm	290210
1 500 x 1 500 mm; 1,5 mm	290211
1 500 x 1 500 mm; 2 mm	290212
1 500 x 1 500 mm; 3 mm	290213

Duragraft T Expanded Graphite Sheet (Dim; T)****

1 500 x 1 500 mm; 1 mm	290218
1 500 x 1 500 mm; 1,5 mm	290219
1 500 x 1 500 mm; 2 mm	290220
1 500 x 1 500 mm; 3 mm	290221

ECS-T PTFE Sheet Gasket (Dim; T)****

1 200 x 1 200 mm; 1 mm	290230
1 500 x 1 500 mm; 1,5 mm	290231
1 500 x 1 500 mm; 2 mm	290232
1 500 x 1 500 mm; 3 mm	290233

* Weights are given for informational purposes only.
Weights are not contractual.

** CS: Cross section; W: Weight; L: Length.

*** CS: Cross section; Valves/boxes; Average number of valves per box; W: Weight; Ø: Stem diameter.

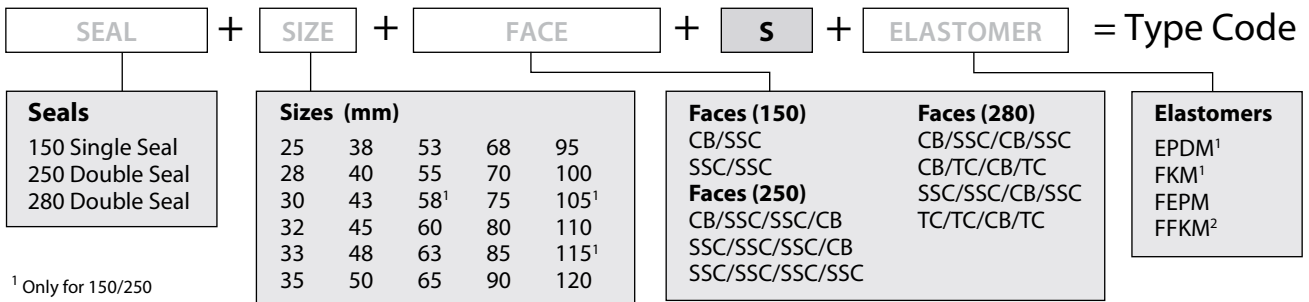
**** Dim; LxI; T: Thickness.

MECHANICAL SEAL ORDERING INFORMATION

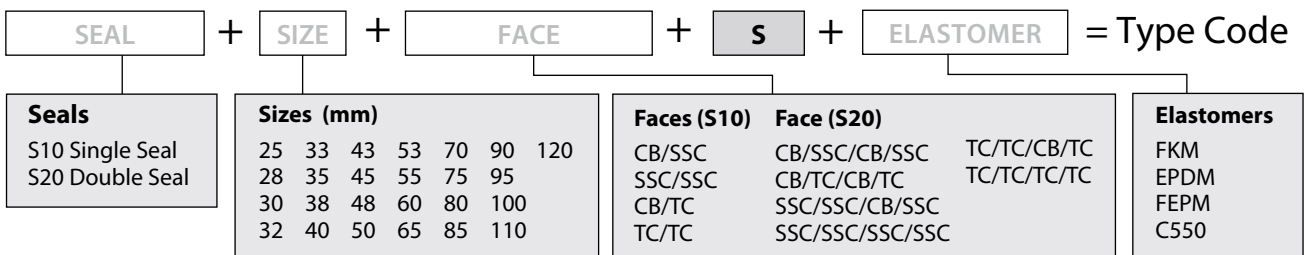
To place an order please fill out the white boxes with the appropriate information and supply the type code to your Chesterton representative. Use the chart on the right for your reference.

Component	Chesterton	EN12756	Description
Faces	CB	B	Carbon Graphite, Resin Impregnated
	SSC	Q1	Silicon Carbide, Sintered Pressureless
	RSC	Q2	Silicon Carbide, Reaction Bonded
	TC	U2	Tungsten Carbide, Ni-Binder
	CR	V	Aluminum Oxide, 99.5%
Metals	316	G	CrNiMo Steel (1.4401)
	Alloy-20	M3	20 Cb3 (2.4660)
	Ti	T2	Titanium (3.7035)
	HC	M5	Hastelloy® C-276 (2.4819)
	HB	M1	Hastelloy® B2 (2.4617)
	Monel®	M4	Alloy K500 (2.4375)
Elastomers	FKM	V	Fluorocarbon
	EPDM	E	Ethylene Propylene Rubber
	FEPM	X	Tetra-ethylene Propylene Rubber
	FFKM	K	Perfluoroelastomer
	C550	K1	Chemlast™ 550
	C250	K2	Chemlast™ 250

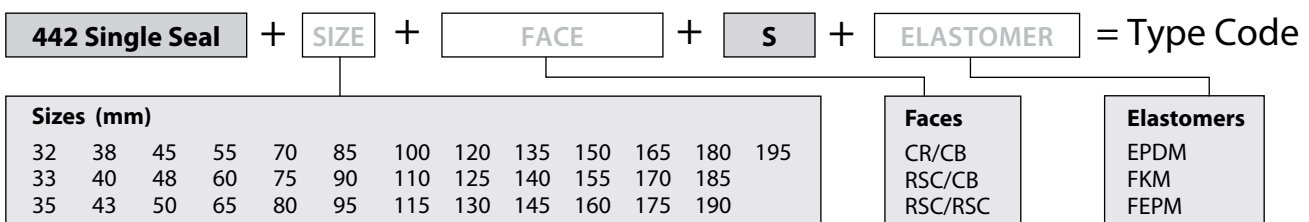
Cartridge Single Seal



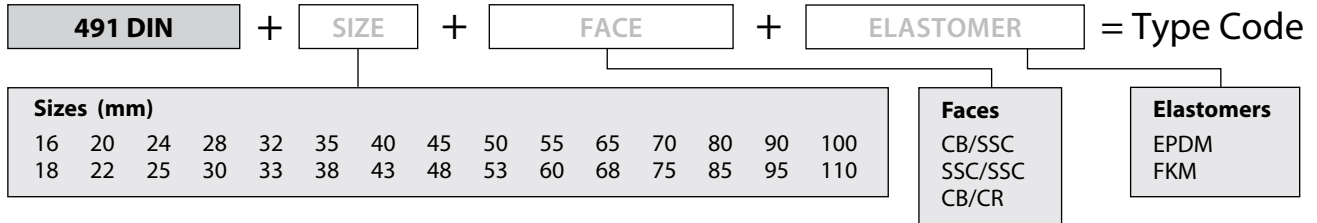
Cassette Seal



442 Single Split Seal

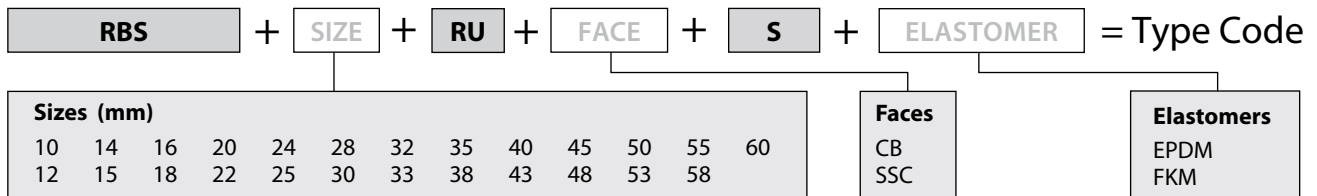


491 DIN Component Seal

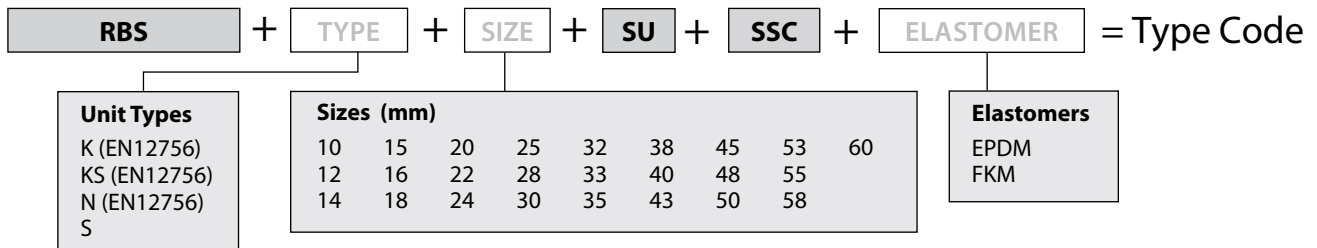


RBS Seal

Rotary Unit³

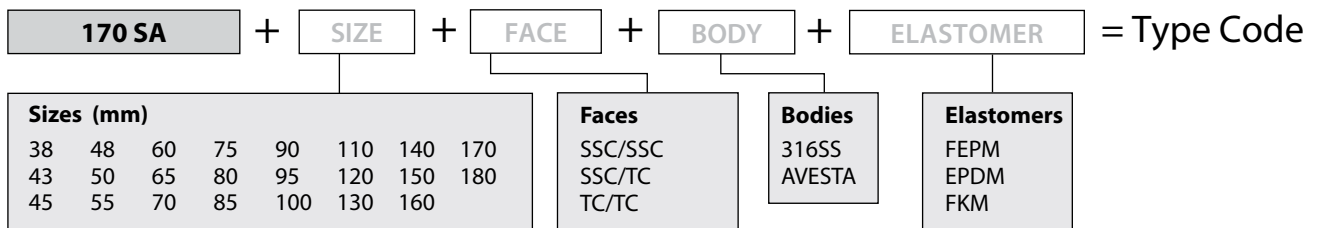


Stationary Unit³

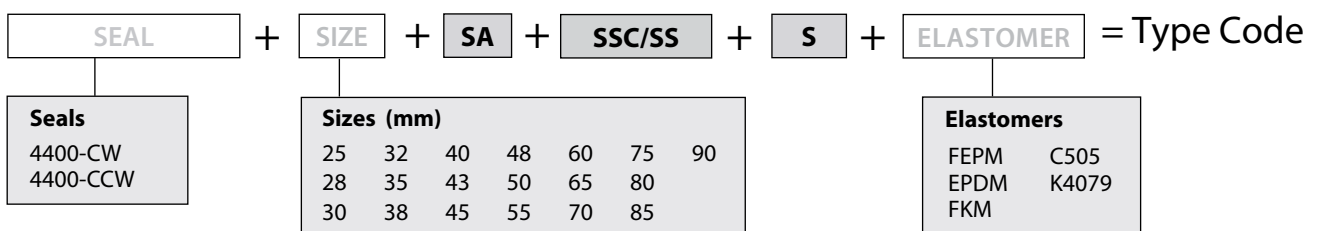


³To order a complete RBS Seal, please order both rotary and stationary units.

170 SA Cartridge Seal



4400 Gas Seal



INDUSTRIAL LUBRICANTS AND MRO CHEMICALS ORDERING INFORMATION

218 HDP					
20 l	083001				
1 000 l	083074				
208 l	083002				
235 SSC					
20 l	080032EU				
208 l	080033EU				
274 Industrial Degreaser					
20 l	081006EU				
208 l	081013EU				
Aerosol 350g - EUR	087848				
276 Electronic Component Cleaner					
20 l	081623				
208 l	081624				
Aerosol 250g - EUR	087851				
338 Super Rust Remover					
20 l	085904				
208 l	085907				
346 Descaler and Chemical Cleaner					
20 l	088403				
208 l	088407				
360 Phosphate-Free Cleaner					
20 l	083603				
208 l	083607				
1 000 l	086562				
388 Synthetic Tapping Fluid					
475 ml	081491				
20 l	081492				
208 l	081194				
390 Cutting Oil					
Aerosol 411g - EUR	087860				
601 Chain Drive Pin and Bushing Lubricant					
1 gal/3,8 l	081904				
20 l	081910EU				
208 l	081907EU				
Aerosol 350g - EUR	087864				
610 Synthetic Lubricating Fluid					
1 gal/3,8 l	089415				
20 l	089414				
208 l	089424				
Aerosol 350g - EUR	087865				
610HT Synthetic Lubricating Fluid					
1 gal/3,8 l	083765				
20 l	080418				
208 l	080419				
610MT Plus Synthetic Lubricating Fluid					
20 l	082852				
208 l	082853				
615 HTG #1 High Temperature Grease					
400 g	086935				
18 kg	086936				
55 kg	086007				
180 kg	080725				
615 HTG #2 High Temperature Grease					
400 g	080042				
18 kg	080043				
55 kg	080045				
181 kg	080728				
625 CXF Grease, Corrosion Resistant, Extreme Pressure, Food Grade					
400 g	080707				
18 kg	080705				
55 kg	080706				
181 kg	080337				
630 SXCF Grease, Synthetic, Corrosion Resistant, Extreme Pressure, Food Grade					
400 g	082713				
18 kg	082711				
55 kg	082714				
181 kg	082712				
Synthetic, Aerosol, 350g, EUR	082865				
635 SXC Grease, Synthetic, Corrosion Resistant, Extreme Pressure					
400 g	088556				
18 kg	088557				
55 kg	088558				
181 kg	088559				
636 FG Food Grade Synthetic Lubricating Fluid					
20 l	084129				
208 l	084127				
652 Pneumatic Lubricant and Conditioner					
475 ml	086888				
1 gal/3,8 l	080447				
20 l	086000EU				
208 l	083018EU				
690FG Lubricant, Food Grade					
1 gal/3,8 l	082703				
20 l	082710				
208 l	082705				
Aerosol 397g - EUR	087870				
715 Spraflex®					
20 l	081709				
208 l	081707				
Aerosol 350g - EUR	087872				
715 Spraflex® Gold					
1 gal/3,8 l	081896				
20 l	081897				
208 l	081898				
Aerosol 300g - EUR	087871				
723 Sprasolvo®, Aerosol 350g - EUR	087874				
723FG Sprasolvo®, Aerosol 350g - EUR	087873				
725 Nickel Anti-Seize Compound					
250 g Brush Top	081266				
500 g Brush Top	082359				
20 l	082349				
Aerosol 350g - EUR	087875				
740 Heavy Duty Rust Guard					
1 gal/3,8 l	087705				
20 l	087704				
208 l	087707				
Aerosol 300g - EUR	087877				
775 Moisture Shield					
20 l	082110				
208 l	082107				
Aerosol 350g - EUR	087880				
783 ACR High Performance Anti-Seize					
250 g Brush Top	082805				
500 g Brush Top	088653				
500 g Open Top	088771				
20 l, 24kg	088654				
785 Parting Lubricant					
200 g EN/GER	086907				
200 g SW/NW	086908				
250 g Brush Top	082016				
500 g Brush Top	080747				
24 kg	080748				
Aerosol 350g - EUR	087881				
785FG Parting Lubricant, Food Grade					
200 g - FWNGDA	088502				
200 g - IRSEUDU	088503				
500 g Brush Top	080788				
800 GoldEnd® Tape					
1/4 x 540 in/6,4 mm x 13,72 m	000805				
1/2 x 180 in/12,7 mm x 4,57 m	000801				
1/2 x 540 in/12,7 mm x 13,72 m	000802				
1/2 x 1 296 in/12,7 mm x 32,92 m	000803				
3/4 x 540 in/19,1 mm x 13,72 m	000804				
1 x 540 in/25,4 mm x 13,72 m	000806				
803 Industrial and Marine Solvent II					
1 gal/3,8 l	086774				
20 l	090379EU				
208 l	090388EU				
1 000 l	086768EU				
860 Moldable Polymer Gasketing Kit					
2 aerosol and 2 cartridges, plus a tool box	084883				
2 aerosol and 2 cartridges	086310				
KPC 820					
20 l	082260EU				
208 l	082264EU				
1 000 l	083555EU				
Lubri-Cup™					
EM 250cc Electronic Dispenser	981100				
EM-X 250cc Electronic Dispenser ATEX	981067				
MSP 250cc Electronic Dispenser DC Power	981101				
MSP 250cc Electronic Dispenser AC Power	981102				
EM Service Pack 615 #1 250cc	981068				
EM Service Pack 615 #2 250cc	981069				
EM Service Pack 625 250cc	981072				
EM Service Pack 630 250cc	981073				
EM Service Pack 633 250cc	981074				
EM Service Pack 635 250cc	981075				
Lubri-Cup™ VG Mini					
With 630 SXCF Grease	084473				
Opticool™ 372 Emulsified Oils					
20 l	082315				
208 l	082316				
1 000 l	082317				

COMPOSITE COATINGS ORDERING INFORMATION

ARC Metal Composite Systems

ARC 855 Abrasion Control Liquid (P; T; C)*

1 kg ; 0,8 mm (30 mils) ; 0,78 m ² (8,4 ft ²)	
Black.....	082143
Grey.....	082140
4,5 kg; 0,8 mm (30 mils); 3,52 m ² (37,9 ft ²)	
Black.....	082142
Grey.....	082139
15 l (25,6 kg); 0,8 mm (30 mils) ; 20,0 m ² (215,6 ft ²)	
Black.....	084162
Grey.....	084163

ARC 858 Abrasion Control Compound (P; T; C)*

250 g (QP); 3 mm (125 mils) ; 521 cm ² (0,53 ft ²)	
Grey.....	086194
400 CC Caulk Tube; 3 mm (125 mils) ; 1 333 cm ² (195 in ²)	
Grey.....	083346
1 kg; 3 mm (125 mils) ; 2 083 cm ² (2,11 ft ²)	
Grey.....	082137
4,5 kg; 3 mm (125 mils) ; 0,94 m ² (9,5 ft ²)	
Grey.....	082134
15 l (24,8 kg); 3 mm (125 mils) ; 5 m ² (50,9 ft ²)	
Grey.....	084161

ARC 890 Coarse Grade, Sliding Wear Compound (P; T; C)*

2 kg; 6 mm (250 mils) ; 1 515 cm ² (223 in ²)	
Grey.....	082133
6 kg; 6 mm (250 mils) ; 4 545 cm ² (669 in ²)	
Grey.....	082132
15 l (34,6 kg); 6 mm (250 mils) ; 2,5 m ² (27 ft ²)	
Grey.....	084158

ARC 897 Fine Grade, Sliding Wear Compound (P; T; C)*

1 kg; 3 mm (125 mils) ; 1 515 cm ² (1,5 ft ²)	
Grey.....	082131
6 kg; 3 mm (125 mils) ; 9 090 cm ² (9,2 ft ²)	
Grey.....	082128
15 l (33,0 kg); 3 mm (125 mils) ; 5 m ² (53,8 ft ²)	
Grey.....	084160

ARC 982 100% Solids, Epoxy Novolac, Acid Resistant Coating (P; T; C)*

1 kg; 375 µm (15 mils) ; 2,2 m ² (24 ft ²)	
Light Grey.....	082127
Medium Grey.....	082124
15 l (17,9 kg); 375 µm (15 mils) ; 39,8 m ² (426 ft ²)	
Light Grey.....	084181
Medium Grey.....	084182

ARC HT-S Sprayable Abrasion Control Liquid (P; T; C)*

4 l; 900 µm (35 mils) ; 4,5 m ² (48,4 ft ²)	
Blue.....	082739
Grey.....	082741
16 l; 900 µm (35 mils) ; 18,0 m ² (193,75 ft ²)	
Blue.....	082736
Grey.....	082743

ARC HT-T Trowelable Abrasion Control Compound (P; T; C)*

4 l; 900 µm (35 mils) ; 4,5 m ² (48,4 ft ²)	
Black.....	082719
Green.....	082720
16 l; 900 µm (35 mils) ; 18,0 m ² (193,75 ft ²)	
Black.....	082723
Green.....	082727

ARC I BX1 Impact and Wear Resistant Epoxy Composite (P; T; C)*

20 kg; 6 mm (250 mils) ; 1,5 m ² (15 ft ²)	
Grey.....	081948
12 x 20 kg; 6 mm (250 mils) ; 18 m ² (180 ft ²)	
Grey.....	081946

ARC S1 General Purpose Sprayable, Corrosion Protection Coating (P; T; C)*

4 l; 250 µm (10 mils) ; 16 m ² (170 ft ²)	
Blue.....	086061
Grey.....	080629
16 l; 250 µm (10 mils) ; 64 m ² (678 ft ²)	
Blue.....	084169
Grey.....	084168

ARC S1HB General Purpose Sprayable, Corrosion Protection Coating High Build System (P; T; C)*

60 l; 250 µm (10 mils) ; 240 m ² (2 550 ft ²)	
Grey.....	088664
600 l; 250 µm (10 mils) ; 2 400 m ² (25 500 ft ²)	
Grey.....	088665

ARC S2 Ceramic-reinforced, Sprayable, Erosion-resistant Coating (P; T; C)*

2 kg; 375 µm (15 mils) ; 3,56 m ² (37,7 ft ²)	
Grey.....	090359
Green.....	090369
12 kg; 375 µm (15 mils) ; 21,33 m ² (226,0 ft ²)	
Grey.....	090349
Green.....	090368
15 l (22,9 kg); 375 µm (15 mils) ; 40,0 m ² (423,8 ft ²)	
Grey.....	084175
Green.....	084176
1125 ml (cartridge); 375 µm (15 mils); 3 m ² (32 ft ²)	
Grey.....	084496
Green.....	084495

ARC S4+ 100% Solids, Mineral-Reinforced, Epoxy Novolac, Acid Resistant Coating (P; T; C)*

1125 ml (cartridge); 375 µm (15 mils); 3 m ² (32 ft ²)	
Grey.....	084177
Red.....	084498
4 l; 375 µm (15 mils); 10,7 m ² (113 ft ²)	
Grey.....	080774
Red.....	080765
16 l; 375 µm (15 mils); 42,7 m ² (452 ft ²)	
Grey.....	084177
Red.....	084178

ARC S7 High-Temperature and Chemical-Resistant, Epoxy Novolac Vinyl Ester Coating (P; T; C)*

14 l; 500 µm (20 mils) WFT**; 28 m ² (300 ft ²)	
Off White.....	082700EU
Red.....	082694EU

ARC Concrete Composite Systems

ARC 791 100% Solids, Novolac Resin Blend, Trowel-Applied, Quartz Reinforced Concrete Resurfacer (P; T; C)*

System Kit; 6 mm (250 mils) ; 4,1 m ² (45 ft ²)	
Grey.....	082195
Bulk Kit; 6 mm (250 mils) ; 16,7 m ² (180 ft ²)	
Grey.....	089537

ARC 988 Highly Chemically Resistant, 100% Solids, Pure Novolac Resin Based, Trowel Applied, Quartz Reinforced Concrete Resurfacer (P; T; C)*

System Kit; 6 mm (250 mils) ; 4,1 m ² (45 ft ²)	
Grey.....	082197
Red.....	090452
Bulk Kit; 6 mm (250 mils) ; 16,7 m ² (180 ft ²)	
Grey.....	089539
Red.....	089540

ARC CS2 General Purpose, Thin Film, Novolac Blend, Epoxy Coating (P; T; C)*

16 l; 0,5 mm (20 mils); 31,5 m ² (339 ft ²)	
Grey.....	084186

ARC CS4 Highly Chemically Resistant, 100% Novolac Resin, Epoxy Coating (P; T; C)*

4 l; 0,5 mm (20 mils); 7,9 m ² (84,8 ft ²)	
Red.....	081572
16 l; 0,5 mm (20 mils); 31,5 m ² (339 ft ²)	
Red.....	084187

ARC NVE VC High-Temperature and Chemical Resistant, Epoxy Novolac Vinyl Ester Coating, Veil Coat (P; T; C)*

System kit; 250 µm (10 mils); 9,7 m ² (104 ft ²)	
Red.....	081245EU

ARC NVE TC High-Temperature and Chemical Resistant, Epoxy Novolac Vinyl Ester Coating, Top Coat (P; T; C)*

System kit; 6 mm (250 mils); 9,7 m ² (104 ft ²)	
Red.....	082857EU

* P: Pack Size; T: Thickness; C: Coverage

** WFT: Wet Film Thickness

Technical data notes: 1) Coverage values are theoretical, based on no waste factor or surface profile effects. In practice, 10–20% extra product should be added for waste factor assuming brush, roller, or trowel application. 2) Waste factor for products applied by spray could vary significantly depending on spray equipment, substrate geometry, and environmental conditions. 3) All coverage values based on product temperature of 21°C (70°F).

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