

# ENGINEERED POLYMER SOLUTIONS

## SPEEDSEAL<sup>®</sup>

### PROGRAM



# CAPABILITIES

VIRTUALLY ANY DESIGN,  
ANY MATERIAL AND ANY SIZE

For decades, Chesterton has been the manufacturer of choice for sealing solutions where reliability makes the difference. We use state-of-the-art polymer technologies that have been field tested and proven around the world in the most demanding applications. Our technical expertise, combined with our comprehensive range of sizes, designs and materials enable us to provide custom engineered solutions to meet your specific needs.



Our materials portfolio includes:

## FLUROPLASTICS

- Filled PTFE  
AWC...510, 530
- Modified Filled PTFE  
AWC...220, 440, 550

## ENGINEERED PLASTICS

- AWC...600, 635, 610, 615, 620, 625, 660

## ELASTOMERS

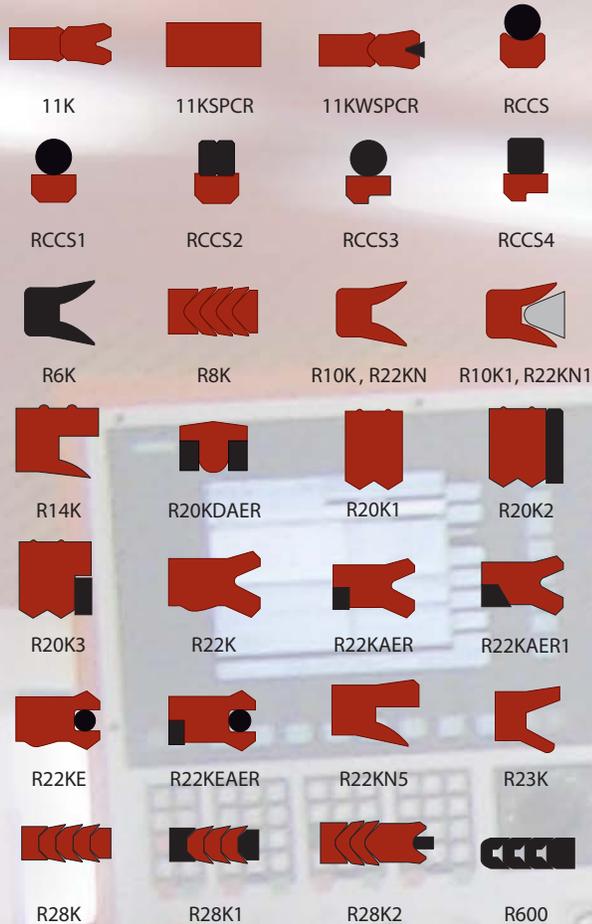
- Thermoset polyurethanes  
AWC830
- Thermoplastics  
AWC...810, 811, 812, 815
- NBR  
AWC742
- HNBR  
AWC743
- EPDM  
AWC750

FLUROPLASTICS		
MATERIALS	TEMPERATURE °C (°F)	GENERAL USAGE
AWC100 Polyimide Filled PTFE	-100 to 260 (-150 to 500)	Dry running or low viscosity petroleum based applications. Highest PV value and can be used in elevated temperatures with excellent fluid compatibility, except with aqueous solutions. Mating surfaces: $R_c \geq 45$ .
AWC300 Glass Filled PTFE	-100 to 230 (-150 to 450)	High wear, high pressure and high-speed applications. High PV values with excellent fluid compatibility. Excellent in high viscosity fluids.
AWC400 Carbon/Graphite Filled PTFE	-100 to 230 (-150 to 450)	Water and steam applications. High PV values. Excellent all-purpose material for rotary applications. Good electrical conductivity.
AWC520 Virgin PTFE	Cryogenic to 230 (450)	Static or slow speed applications with low wear resistance. Works well in vacuum and low gas permeability applications. Superior fluid compatibility and is a FDA listed material.
ENGINEERED PLASTICS		
AWC630 Unfilled PEEK	-45 to 175 (-50 to 350)	Better wear characteristics. Tough, reliable and dimensionally stable, even under continuous elevated temperatures.
AWC650 Acetal	-30 to 90 (-20 to 200)	Anti-extrusion rings or medium load-bearing applications. Excellent creep resistance under continuous load, fatigue and endurance under repeated cycles. FDA list material.
ELASTOMERS		
AWC700 Fluoroelastomer 88A	-30 to 200 (-20 to 400)	Best heat resistance and compatibility with aggressive fluids, such as phosphate esters, moderate wear and tear resistance.
AWC800 Thermoset Polyurethane 95A (Red Polymer)	-50 to 85 (-60 to 185)	Excellent wear and tear resistance with low compression set. Compatible with most hydraulic fluids except synthetics. Excellent extrusion resistance at high pressure. Superior performance in hydraulic and pneumatic and slow rotary applications.
AWC805 Thermoset Polyurethane 85A (Blue Polymer)	-50 to 85 (-60 to 185)	Good wear and tear resistance and low compression set. Compatible with most hydraulic fluids, except synthetics. Performs well in slightly scored or worn equipment.
AWC830 Thermoset Polyurethane 95A	-35 to 75 (-30 to 165)	For use in food and pharmaceutical applications where FDA listed material is required.
AWC860 Thermoset Polyurethane 95A (Cherry Polymer)	-50 to 120 (-60 to 250)	Higher temperature use. Excellent wear and tear resistance with low compression set. Compatible with most hydraulic fluids except synthetics. Superior performance in hydraulic and pneumatic and slow rotary applications. Excellent extrusion resistance at high pressure.

# ENGINEERED

Chesterton's advanced technology allows us the flexibility to design and manufacture seals with virtually no size restrictions. Our broad design portfolio includes the following profiles:

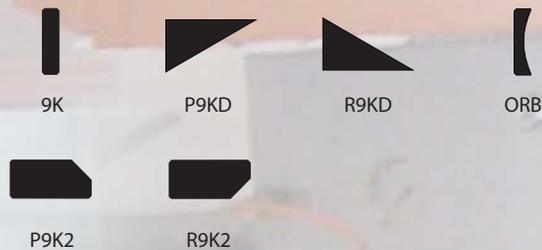
## ROD SEALS



## PISTON SEALS



## ANTI-EXTRUSION RINGS



## BEARING ELEMENTS



# POLYMER SOLUTIONS

## WIPERS



CW21K



CW21K1



CW21K2



CW21K3



W5K, W21KF



W5KT5, 21KT5



W21K



W21KC



W21KC1



W21KCS



W21KH



W21KM



W21KR



W21KS



WCCS

## O-RINGS



R20KDR



P20KDR



20KDRFS



OR



OR1

## ROTARY/CUSTOM SEALS



RS1



RS2



RS3



RS4



EPS100



EPS200



EPS115



EPS207



EPS107



EPS123



EPS307



EPS308



EPS119



EPS010



EPS011



EPS012



30K



30KW



30KSW



33K

To complete an application questionnaire, go to  
[www.engineeredsolution.com](http://www.engineeredsolution.com)



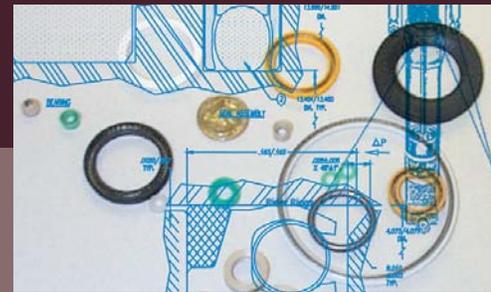
# SPEEDSEAL<sup>®</sup> PROGRAM

Chesterton, known around the world as a leader in the polymer seal industry, has increased service to our customers worldwide with the SpeedSeal Program. These fully integrated production facilities use innovative manufacturing methods to provide you with a broad selection of proven designs and a wide range of high performance materials. The SpeedSeal Program is supported by a network of highly trained and experienced Field Specialists who offer the best service and applications assistance available in the industry.

*SERVICE*

*MATERIALS*

*DESIGNS*



*THE BEST IS NOW THE FASTEST*

- Local Service ■ Made to Order
- Skilled Field Specialists ■ Same Day Delivery
- Proven Designs ■ Technical Expertise
- High Performance Materials ■ Trusted Quality Products



## GLOBAL SOLUTIONS, LOCAL SERVICE

Since 1884, Chesterton has been providing value driven solutions to meet industry's needs. Chesterton solutions have been implemented around the world with documented success and recognition. Increasing equipment reliability, optimizing energy consumption, and providing local technical support and service are what Chesterton offers industry worldwide.

- Servicing Plants in Over 100 Countries
- Global Manufacturing and Service Centers
- 500 Global Sales and Distributor Locations
- Over 1200 Trained Local Service Specialists and Technicians

## MANUFACTURING LOCATIONS

### Chesterton Groveland

860 Salem Street  
Groveland, MA 01834  
USA  
Tel: 978-469-6421  
Fax: 978-469-6731  
Email: [info@chesterton.com](mailto:info@chesterton.com)

### SpeedSeal Sverige AB

Saltsjöbadsvägen 48  
Karlshamn SE-27430  
Sweden  
Tel: 46-454-88202  
Fax: 46-454-19890  
Email: [speedseal.sweden@chesterton.com](mailto:speedseal.sweden@chesterton.com)

### Chesterton International GmbH

Carl-Zeiss-Ring 14  
Ismaning D-85737  
Germany  
Tel: 49-89-996-5460  
Fax: 49-89-996-54660  
Email: [munich@chesterton.com](mailto:munich@chesterton.com)

### Chesco do Brasil Ltda

Rua Itaguai, 27-Jd Pilar  
Santo Andre-Sao Paulo  
CEP 09185-620  
Brazil  
Tel: 55-11-4426-6603  
Fax: 55-11-4429-4692  
Email: [brasil@chesterton.com](mailto:brasil@chesterton.com)

### Chesterton Mexicana Sa de CV

Av. Olmecas No. 1  
Parque Industrial Naucalpan  
Naucalpan de Juarez, Estado de Mexico  
Mexico  
Tel: 52-55-5089-1350  
Fax: 52-55-5301-4452  
Email: [exports@chesterton.com.mx](mailto:exports@chesterton.com.mx)

### Chesterton CustomSeal

95 Excellence Drive  
Wangara, WA 6065  
Australia  
Tel: 61-8-9302-7800  
Fax: 61-8-9302-6986  
Email: [service@customseal.com.au](mailto:service@customseal.com.au)



ISO certifications available at [www.chesterton.com/corporate/iso](http://www.chesterton.com/corporate/iso)

Technical Data reflects results of laboratory tests and is intended to indicate general characteristics only.  
A.W. CHESTERTON CO. DISCLAIMS ALL WARRANTIES EXPRESSED, OR IMPLIED, INCLUDING WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE OR USE. LIABILITY, IF ANY, IS LIMITED TO PRODUCT REPLACEMENT ONLY.



DISTRIBUTED BY:

500 Unicorn Park Drive  
Woburn, MA 01888-4004 USA  
Telephone: 781-438-7000  
Fax: 978-469-6528  
[www.chesterton.com](http://www.chesterton.com)

© A.W. Chesterton Company, 2006. All rights reserved.  
® Registered trademark owned and licensed by  
A.W. Chesterton Company in USA and other countries.

FORM NO. 088120

PRINTED IN USA 12/06