

30KC Viscous Fluids and Powders

Cartridge design for sealing powders and viscous fluids

Chesterton® 30KC polymer cartridge seals are designed for use in dynamic rotary seal applications. This cartridge design uses high performance, filled PTFE materials proven to withstand the high shear rates, frictional heat, and abrasives common when pumping high viscosity products and powders.

The 30KC high performance, filled PTFE compounds are coupled with the unique seal design to provide excellent fluid compatibility and outstanding performance. All engineered cartridges are custom manufactured to equipment dimensions eliminating the need for equipment modifications.

The 30KC is designed with an inboard sealing element, an outboard sealing element, and built-in flushing ports. The inboard lip seals process fluid, the outboard lips seal barrier fluid, while the flush port allows for flushing. The versatile cartridge design is extremely tough and able to withstand adhesion between the sealing surfaces and shaft due to reacted material and dry running capabilities.



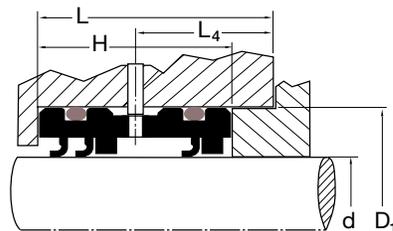
- *Outperform conventional packing, sealing high viscosity fluids and dry powders*
- *Decrease downtime, easy-to-install versatile cartridge design*
- *Improve performance of compression packing, distinct PTFE materials*
- *Custom designed cartridges made to equipment dimensions*

SPECIFICATIONS

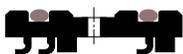


*Material (combination) (adapters/sealer rings)	Shaft Size mm (inch)	Temperature °C (°F)	Speed m/s (ft/min)	Pressure bar (psi)	Mating surface (Rockwell C)	Surface finish µm (µ inch)	**Recommended use
AWC100 (PTFE) Polyimide	25 to 200 (1.000 to 7.875)	- 20 to 150 (-30 to 300)	Up to 5 (984)	to 10 (150)	45	Dynamic	Excellent dry Excellent low viscosity (<2,000 cp) Powders, oil, resins, glues, paints No water or steam
AWC300 (PTFE) Molybdenum & glass					55	0.2 to 0.4 (8 to 16)	Excellent high viscosity (>2,000 cp) Good in dry, water or steam
AWC400 (PTFE) Carbon & graphite					55	Static 0.4 to 0.8 (16 to 32)	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

* fluoroelastomer O-rings provided (FDA listed w/ AWC510) ** runout to 0,15mm (.005")



PRODUCT PROFILES:



30KC

To place an order:

Product profile: _____

Material: _____

Rod shaft diameter (d): _____

Stuffing bore diameter (D₁): _____

Groove height (L): _____

Distance to flush port (L₄): _____

Cartridge height (H): _____



GLOBAL SOLUTIONS, LOCAL SERVICE

Since its founding in 1884, A.W. Chesterton Company has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 100 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

Visit our website at
www.chesterton.com



Chesterton ISO certificates available on www.chesterton.com/corporate/iso

Technical data reflects results of laboratory tests and is intended to indicate general characteristics only.
A.W. CHESTERTON COMPANY 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.
ANY IMAGES CONTAINED HEREIN ARE FOR GENERAL ILLUSTRATIVE OR AESTHETIC PURPOSES ONLY AND ARE NOT INTENDED TO CONVEY ANY INSTRUCTIONAL, SAFETY, HANDLING OR USAGE INFORMATION OR ADVICE RESPECTING ANY PRODUCT OR EQUIPMENT. PLEASE REFER TO RELEVANT MATERIAL SAFETY DATA SHEETS, PRODUCT DATA SHEETS AND/OR PRODUCT LABELS FOR SAFE USE, STORAGE, HANDLING AND DISPOSAL OF PRODUCTS OR CONSULT WITH YOUR LOCAL CHESTERTON REPRESENTATIVE.



DISTRIBUTED BY:

860 Salem Street
Groveland, MA 01834 USA
Telephone: 781-438-7000
Fax: 978-469-6528
www.chesterton.com

© A.W. Chesterton Company, 2009. All rights reserved.
® Registered trademark owned and licensed by
A.W. Chesterton Company in USA and other countries.

FORM NO. EN22181

30KC EPS DATA SHEET - ENGLISH

PRINTED IN USA 9/11