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.

### SPECIFICATIONS

<table>
<thead>
<tr>
<th>Material (combination)</th>
<th>Shaft Size (mm/inch)</th>
<th>Temperature (°C/°F)</th>
<th>Speed (m/s/ft/min)</th>
<th>Pressure bar (psi)</th>
<th>Surface Finish (Rockwell C)</th>
<th><strong>Recommended use</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>AWC100 (PTFE) Polymeride</td>
<td>25 to 200 (1.000 to 7.875)</td>
<td>-20 to 150 (-30 to 300)</td>
<td>Up to 5 (984)</td>
<td>to 10 (150)</td>
<td>45 Dynamic</td>
<td>Excellent dry for water or steam</td>
</tr>
<tr>
<td>AWC300 (PTFE) Molybdenum &amp; glass</td>
<td>55</td>
<td>0.2 to 0.4 (8 to 16)</td>
<td>Excellent high viscosity (&gt;2,000 cp) Powder, oil, resins, glues, paints No water or steam</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWC400 (PTFE) Carbon &amp; graphite</td>
<td>55</td>
<td>Static 0.4 to 0.8 (16 to 32)</td>
<td>Excellent in water or steam</td>
<td>Powders, asphalt, clay, slurries</td>
<td></td>
<td></td>
</tr>
<tr>
<td>AWC510 Mineral (FDA listed)</td>
<td>45</td>
<td></td>
<td>Excellent dry</td>
<td>Good in water or steam Chocolate and syrups No petroleum liquids</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

* *Material*: fluoroelastomer O-rings provided (FDA listed w/AWC310) **Recommended use**

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**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):  

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**30KC Viscous Fluids and Powders**

*Cartridge design for sealing powders and viscous fluids*
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

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