

30K Rotary Seal Bearing/Gear Box Protection

Product Data

Chesterton® 30K Rotary Seal provides excellent service in bearing and gear box applications that utilize conventional oil lip seals. The 30K is available in 4 distinct PTFE materials developed specifically for sealing applications. The PTFE compounds coupled with the seal design provide excellent fluid compatibility and outstanding performance.

- Each seal is individually machined, then the dynamic sealing lip is mechanically formed to provide optimal sealing force.
- Static o-ring seal prevents rotation and allows for easy installation and removal.
- Outperforms conventional oil lip seals.
- Does not fret or damage hardened shafts.
- Custom fabricated to meet equipment dimensions.
- Material is easily selected based on system fluid.
- Three unique designs to meet your sealing requirements

30K

30KW

30KSW

AWC 100

AWC 300

AWC 400

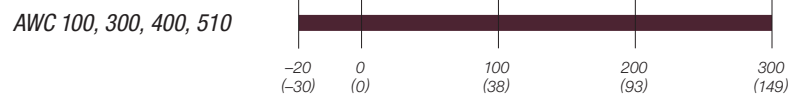
AWC 510

Material Selection & Typical Applications*

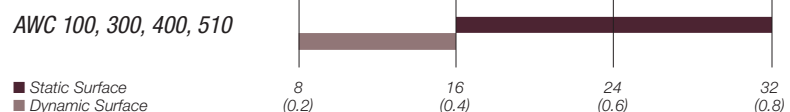
PTFE Compound	Dry	Water/Steam	Petroleum Based Liquids
AWC 100 - Polyimide Filled	Excellent	—	Excellent-Low Viscosity
AWC 300 - Moly & Glass Filled	Good	Good	Excellent-High Viscosity (>2,000 cp)
AWC 400 - Carbon & Graphite Filled	Good	Excellent	Good
AWC 510 - Mineral Filled (FDA Listed)	Excellent	Good	Not Recommended

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

Operating Temperature Range – °F (°C)



Recommended Surface Finishes – μ inch (μ m)



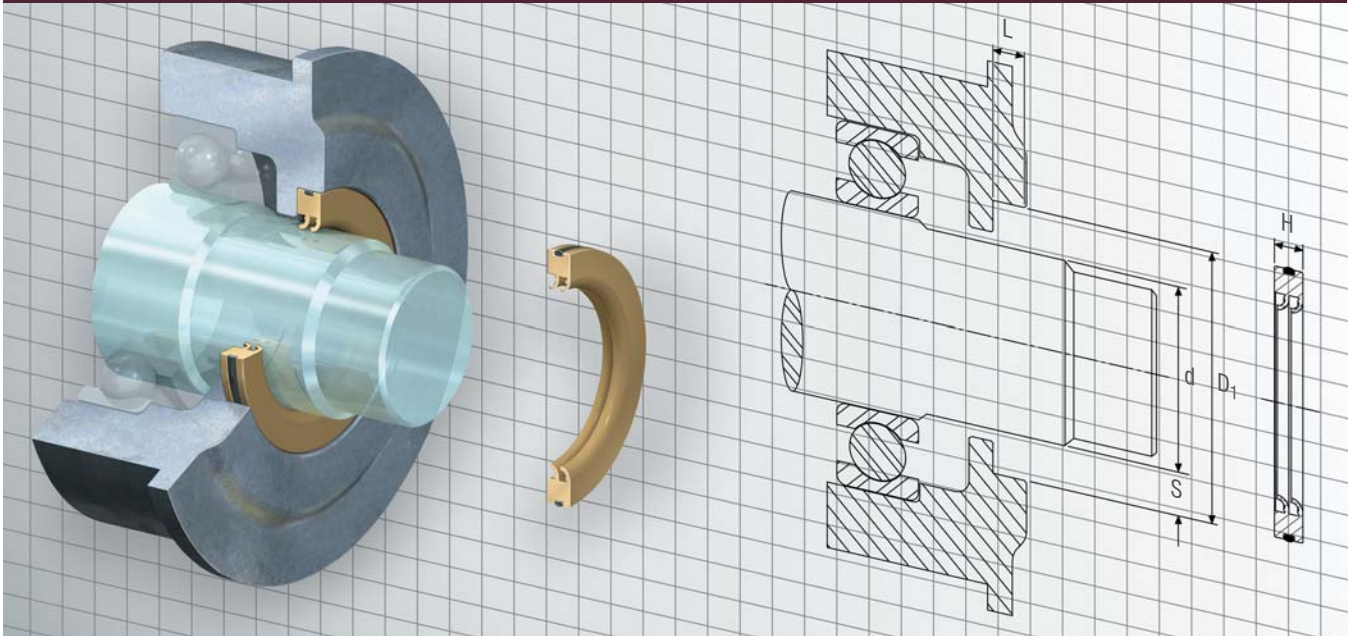
Recommended Mating Surface Hardness

AWC 100 / 510	AWC 300	AWC 400
>45 Rockwell C	>55 Rockwell C	>55 Rockwell C

30K Rotary Seal

Bearing/Gear Box Protection

Cross Sectional Drawing of Equipment



Technical Data

Designations:

Shaft diameter = d
 Equipment bore = D_1
 Seal height = H
 Groove height = L
 Cross section = S

O-ring Material:

AWC 100, 300, 400 =
 Fluoroelastomer

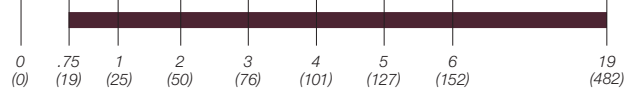
AWC 510 =

FDA Grade Fluoroelastomer

Available Seal Sizes

Shaft Diameter Range

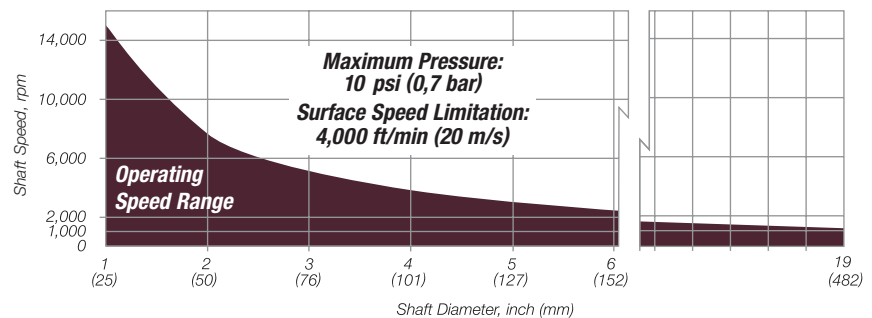
AWC 100, 300, 400, 510



Shaft Diameter (d)	*Equipment Cross Section (S)	*Seal Height (H)
0.750 – 19.0 inch (19 – 482 mm)	0.222 – 1.250 inch (5,5 – 31 mm)	0.230 – 1.500 inch (5,8 – 38 mm)

* Maximum and minimum seal heights and cross sections will vary by shaft diameter.

Operating Parameters



ISO certifications available at
www.chesterton.com/corporate/iso

Technical Data reflects results of laboratory tests and is intended to indicate general characteristics only.

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A Supporting Member of FSA/ESA
 860 Salem Street
 Groveland, Massachusetts 01834 USA
 Telephone: 978-469-6421 Fax: 978-469-6731
www.chesterton.com

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