

# 22K Ultraseal

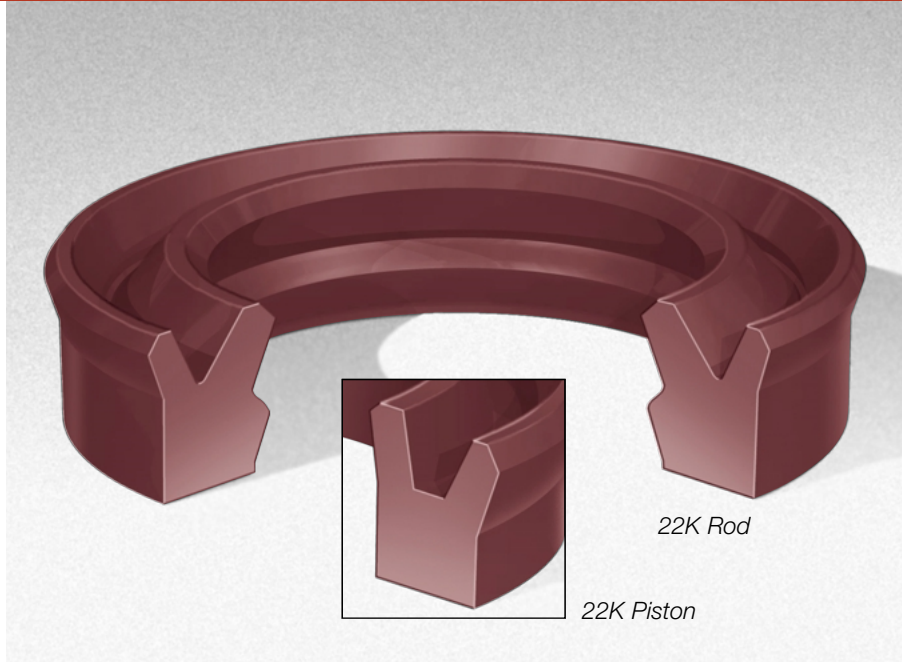
## 22K – Product Data

Chesterton® 22K seals are rod and piston mounted U-Cups, for **HYDRAULIC** applications. The unique design of these seals allows for ease of installation, increased stability and excellent sealing characteristics.

- Ideal for high volume requirements.
- Available in all standard sizes. Ideal upgrade for OEM, MRO and aftermarket type seals.
- Custom engineered sizing eliminates unnecessary re-machining by designing around existing equipment dimensions.
- Unique manufacturing process. New sizes available without tooling or engineering charges.
- Tall, heavy static lip resists damage from axial movement. Stabilizes seal to prevent rolling.
- Seal lip geometry assures zero leakage throughout operating pressure ranges.

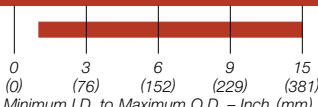
### DELIVERY INFORMATION

- Standard shipment – 5 days or less.
- 24 hour shipment – Available.



### Available Material and Seal Sizes

Material	H	S
95A Super Polymer	≥ 0.218 (5,5) ≤ 1.00 (25)	≥ 0.156 (4,0) ≤ 0.750 (19)


  
 0 (0) 3 (76) 6 (152) 9 (229) 15 (381)
   
 Minimum I.D. to Maximum O.D. – Inch (mm)

H = Seal Height  
S = Cross Section

- High quality material
- Long term elastic memory
- Resists compression setting
- Tough wear resistant
- Extrusion resistant
- Chesterton's thermoset material maintains its properties within the operating temperature range better than thermoplastic seals

### Typical Applications

- |                          |                               |  |                        |
|--------------------------|-------------------------------|--|------------------------|
| • Blooming mills         | • Blow molding equipment      | • Power shovels                        | • Fork lift trucks     |
| • Strip mills            | • Drop forging machinery      | • Front end loaders                    | • Die cushions         |
| • Looper cylinders       | • Plastic injection cylinders | • Rotary drills                        | • Lift platforms       |
| • Roll jacks             | • Logging equipment           | • Crawler tractors                     | • Scrap baling presses |
| • Roll balance cylinders |                               | • Haul trucks                          |                        |
| • Continuous casters     |                               | • Hydraulic presses, brakes and shears |                        |

**New sizes available for shipment within 24 hours**

# 22K Ultraseal

## 22K – Technical Data

### To select a 22K seal:

- Ensure the suitability of material using the temperature, speed and pressure charts provided.

### Calculate diametrical clearances as follows:

#### Rod Seal:

Diametrical clearance  
=  $C - d$

Gland inside diameter =  $C$

Rod diameter =  $d$

#### Piston Seal:

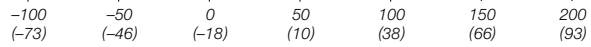
Diametrical clearance  
=  $D - p$

Cylinder bore =  $D$

Piston outside diameter =  $p$

### Operating Temperature Range – °F (°C)

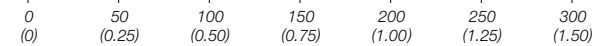
95A Super Polymer



### Approximate Operating Speeds – ft/min (m/sec)

95A Super Polymer

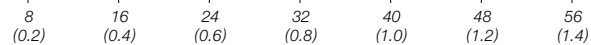
- Rotary Speed
- Reciprocating Speed



### Recommended Surface Finishes – μ Inch (μ m)

95A Super Polymer

- Static Surface
- Dynamic Surface



### Recommended Operating Pressure – psi (bar)

