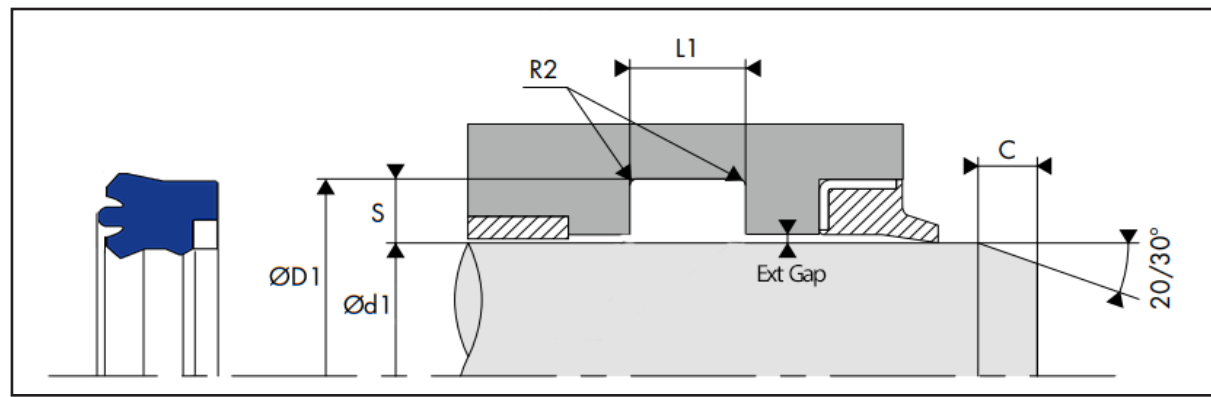
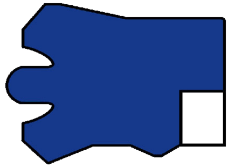


# ROD SEALS

## TILCA



### TECHNICAL DATA

<b>Temperature</b>	-40°C / +110°C
<b>Pressure</b>	450 BAR
<b>Speed</b>	0.5 m/sec
<b>Media</b>	Mineral hydraulic oils Water based hydraulic oils

### TOLERANCES

<b><math>\varnothing d1</math></b>	f7
<b><math>\varnothing D1</math></b>	H9
<b>L1</b>	+0.010" (+0.25)

### MATERIALS

**Profiled seal**  
PU 95 Shore A - Blue

S	Radius & Chamfers		Max Radial Extrusion Gap			
			BAR/PSI			
	R2 (mm)	C (mm)	160/2300	260/3800	320/4600	400/5800
3.00 - 5.00mm	0.4	1.00	0.50mm	0.40mm	0.35mm	N/A
>5.00 - 7.50mm	0.4	2.00	0.55mm	0.45mm	0.40mm	0.35mm
>7.50 - 12.50mm	0.4	3.00	0.60mm	0.50mm	0.45mm	0.40mm
15.00mm	0.4	5.00	0.65mm	0.55mm	0.45mm	0.40mm

### SURFACE ROUGHNESS

Roughness	Dynamic surface area	Static surface area	Groove flanks
Ra	0.1 - 0.4 $\mu\text{m}$	$\leq 1.6 \mu\text{m}$	$\leq 3.2 \mu\text{m}$
Rz	0.63 - 2.5 $\mu\text{m}$	$\leq 6.3 \mu\text{m}$	$\leq 10.0 \mu\text{m}$
Rmax	1.0 - 4.0 $\mu\text{m}$	$\leq 10.0 \mu\text{m}$	$\leq 16.0 \mu\text{m}$

### DESCRIPTION

Asymmetric polyurethane U-ring with a second lip on the heel for improved stability and dry rod sealing. Also features an acetal anti-extrusion ring and extra axial support.

### ADVANTAGES

Good sealing at both high and low pressures  
Excellent abrasion resistance

### APPLICATIONS

Mobile hydraulics  
Material handling - Lifting Presses  
Hydraulic cylinders