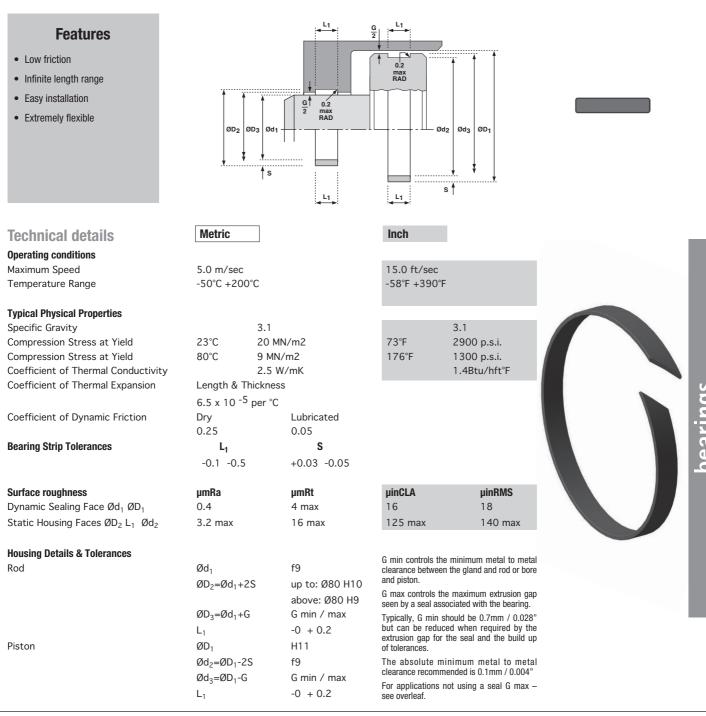
## Hallite

#### Design

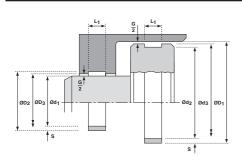
Hallite 87 bearing strip has the ability to support side loads and eliminate 'stick slip' between moving parts. The accurately dimensioned rectangular cross section is produced from a special combination of PTFE and Bronze materials. It has excellent heat resistance and strength to resist creep, making it suitable for bearings with reciprocating, oscillating or rotary movement, whether lubricated or not. Our standard range of cross section sizes are proportioned to be wrapped around a wide range of rod or piston diameters. Installation of the bearing is an easy task. Calculate and measure length L2 (see overleaf), cut the strip with a sharp blade and fit to the groove. If required we will be pleased to supply bearings to your sizes. Independent testing has established the typical properties which make the Hallite 87 worthwhile considering for many applications other than hydraulic or pneumatic cylinders. When using the compressive stress at yield in your calculation it is suggested a 4:1 factor of safety is applied.

The material is compatible with hydraulic mineral oil, lubricating oil, water based and synthetic fire resistant fluids and lubricating grease. Although the material is rated at 200°C, the recommended maximum temperature for bearing applications is 60°C.

Please send us details of your application for advice on this or any other problem where the Hallite 87 may solve your bearing problem.



# Hallite



Ø RANGE							PART
Ød <sub>1</sub>	ØD <sub>1</sub>	L <sub>1</sub>	S	G MAX	G MIN	W	NUMBER
8 - 20	10 - 25	2.5	1.55		0.6	1.0 - 2.0	6663000
8 - 20	10 - 25	4.0	1.55	ł	0.6	1.0 - 2.0	6663100
20 - 75	25 - 80	5.6	2.50	SEAL	0.7	2.0 - 3.5	6663200
35 - 300	40 - 320	9.7	2.50	3Y THE 3N GAP below)	0.7	2.5 - 7.0	6658800
35 - 300	40 - 320	10.0	2.00	BY ION e be	0.7	2.5 - 7.0	6663300
120 - 900	125 - 900	15.0	2.50	QUIRED BY EXTRUSION (see note be	0.8	5.0 - 18.0	6658900
120 - 900	125 - 900	15.0	2.00	REQUIRED EXTRUS (see not	0.8	5.0 - 18.0	6663400
200 - 900	200 - 900	20.0	2.00	BE – O	0.8	7.0 - 18.0	6663500
200 - 900	200 - 900	20.0	2.50	AS	1.0	7.0 - 18.0	6663600
300 - 900	300 - 900	25.0	2.50		1.0	10.0 - 18.0	6663700

S

1.55

2.00

2.50

For applications not using a seal G Max can be :

### **Cutting strip to length**

Calculate the developed length of the strip, L<sub>2</sub> (the developed length is the circumferential length of the centre line of the strip when installed).

for piston mounting :

the developed length =  $\pi$  x (cylinder bore diameter - strip section) - required split i.e. L<sub>2</sub> =  $\pi$  x (ØD<sub>1</sub>-S) -W

for gland mounting : the developed length =  $\pi$  x (rod diameter + strip section) - required spilt i.e. L<sub>2</sub> =  $\pi$  x (Ød<sub>1</sub>+S) -W

Cut to length, (L<sub>2</sub>), using a sharp knife.

### Bearing strip cutting angle

G Max

1.0

1.1

1.6

