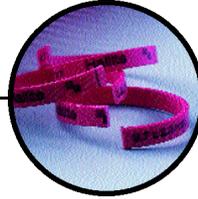**Hallite 506 bearing strip is available in three forms:**

CUT RINGS

Ready made bearings, cut to size and to customer specifications, and ready for installation, Hallite 506 bearings have become an industry standard favoured by designers and specifiers alike. Generally produced for the medium to high volume user.

SPIRAL LENGTHS

Available in a wide range of preformed diameters, spirals are supplied in continuous lengths to suit a range of inside and outside diameters. Ideal for lower volume users requiring various diameters.
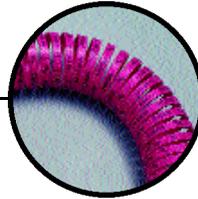
FLAT COILS

Packaged in a dispenser for ease of storage and handling, flat coils are supplied in 10 metre lengths suitable for a wide range of diameters and are ideal for those using or supplying one off bearings for small volume requirements.

All standard bearing strip is printed with a size reference and includes distance marking every 100mm on metric size sections and every six inches on inch size sections for guidance only.

Hallite 506 bearing strip provides an extremely effective, hard wearing and easy to use bearing material.

Manufactured to very tight tolerances and providing bearing solutions for reciprocating, oscillating and slow rotary movement applications, Hallite 506 bearing strip is used in many of today's most arduous hydraulic applications around the world.

Commonly fitted in reciprocating cylinders as rod and piston bearings, Hallite 506 is capable of withstanding extreme side-loads preventing metal to metal contact. The material's design incorporates micro indentations on the bearing strip's surface to trap fluid and provide built-in lubrication to the bearing.

The 506 bearing strip is manufactured by a patented process, using a woven fabric reinforced polyester resin material and is proven to be compatible with a wide range of fluids, including mineral oils, water based fluids and phosphate esters, to produce a rectangular section strip which is available in a wide range of inch and metric sizes including cross sections specified in ISO 10766.

FEATURES
- High load capability
- Infinite length range
- Virtually Zero Swell
- Self lubricating
- Low friction
- Cut to Suit

RANGE

S	L_1	metric
1.50	5.6	
2.00	10.0	
2.00	15.0	
2.50	5.6	‡
2.50	9.7	‡
2.50	13.0	
2.50	15.0	‡
2.52	19.5	
2.50	20.0	
2.50	25.0	‡
2.52	30.0	
2.77	15.0**	
2.77	20.0**	
2.77	25.0**	
3.00	12.8	
3.00	20.0	
3.02	15.0	
3.20	9.7	
3.20	19.7	
3.50	25.0	
4.00	6.1	
4.00	9.7	
4.00	20.0	
4.00	25.0	‡
4.00	30.0	

| S	L_1	inch
0.062	0.375	
0.125	0.375	
0.125	0.500	
0.125	0.625	
0.125	0.750	
0.125	1.000	

Within the size range, items suffixed ‡ indicate cross sections to ISO 10766.

** Denotes non standard product.

Some sizes, generally thick section bearing strip, are not available in flat coils.

All our activities conform to the highest quality assurance systems. Hallite Seals International are fully accredited to ISO 9001 and are approved by many of the world's foremost OEMs.
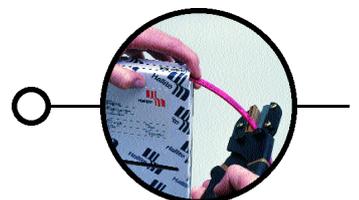
Hallite 506

INSTALLATION DETAILS

WIDTH OF BEARING SPLIT   W

METRIC

Ød₁ / ØD₁	W
Up to 50	3.00 - 1.50
Up to 120	5.00 - 3.50
Up to 250	9.00 - 7.25
Up to 550	17.00 - 15.00

INCH

Ød₁ / ØD₁	W
Up to 2″	0.12 - 0.06
Up to 5″	0.19 - 0.14
Up to 10″	0.35 - 0.29
Up to 22″	0.67 - 0.59

HOUSING DETAILS

G min controls the minimum metal to metal contact between the gland and rod or bore and piston.
G max controls the maximum extrusion gap seen by a seal associated with the bearing.

Typically, G min should be 0.7mm / 0.028″ but can be reduced when required by the extrusion gap for the seal and the build up of tolerances. The absolute minimum metal to metal clearance recommended is 0.1mm / 0.004″
For applications not using a seal G max can be 0.6 x S

ROD (METRIC)

$Ød_1$ — f9
$ØD_2 = Ød_1 + 2S$ — up to : Ø80 H10 above : Ø80 H9
$ØD_3 = Ød_1 + G$ — G min / max
L_1 — + 0.2 -0 mm

PISTON (METRIC)

$ØD_1$ — H11
$Ød_2 = ØD_1 - 2S$ — f9
$Ød_3 = ØD_1 + G$ — G min / max
L_1 — + 0.2 -0 mm

ROD (INCH)

$Ød_1$ — f9
$ØD_2 = Ød_1 + 2S$ — up to : 3″H10 above : 3″H9
$ØD_3 = Ød_1 + G$ — G min / max
L_1 — + 0.008 -0 in

PISTON (INCH)

$ØD_1$ — H11
$Ød_2 = ØD_1 - 2S$ — f9
$Ød_3 = ØD_1 + G$ — G min / max
L_1 — + 0.008 -0 in

For complete technical specifications contact your local Hallite sales office.
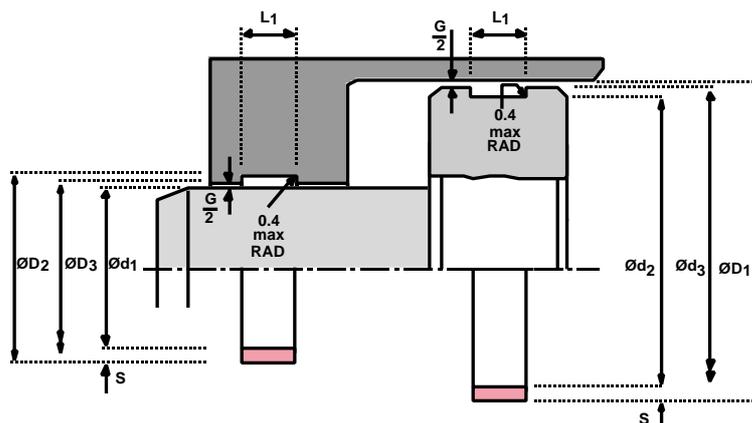
Cutting bearing strip to size

1. Select the groove width (L_1) and section (S) required.
2. In the case of a rod bearing, position the bearing strip around the rod or in the case of a piston bearing, place it in the piston groove and mark the point of overlap. Determine the correct width of bearing split (W) for the Ød or ØD being used, as indicated in the technical details, and make a second mark.
3. Remove the strip and cut at the second marked position to the desired angle using secateurs or other similar cutting tool.
   It is recommended that the standard cutting angle is used for the majority of applications.

Bearing split cutting angle

STANDARD

ALTERNATIVE

60°

W
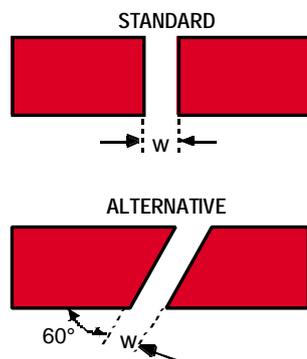
When ordering please clearly state whether cut rings, spiral lengths or flat coils are required. For cut rings and spiral lengths please state whether rod or piston application and provide inside (Ød) or outside (ØD) diameters, groove width (L_1) and section (S) dimensions and where spiral lengths are ordered also specify length required. For flat coils please specify groove width (L_1) and section (S) dimensions.