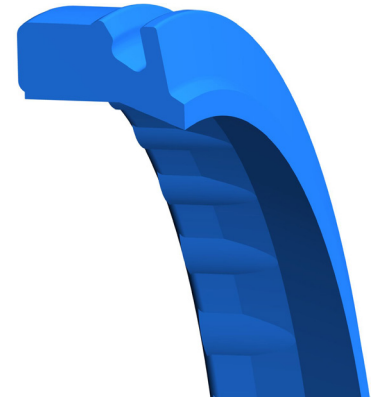


842

WIPER

Single-Lipped

Polyurethane with Umbrella Design Technology™



DESIGN

The Hallite 842 single-lipped, snap-in rod wiper is developed specifically for use in harsher environments with heavy contamination, such as in agriculture, off-highway, forestry, and long wall mining equipment.

The unique feature of the Hallite 842 is the Umbrella Wiper Technology™, which is a protective debris guard flap on the wiping lip that entirely covers the gland housing and prevents the water/slurry trap that is common with conventional wipers.

This feature offers added protection to the integrity of the hydraulic system, providing increased system life by reducing corrosion and preventing the ingress of contamination into the wiper housing groove and hydraulic cylinder gland.

The molded ribs on the internal diameter provide extra stability to the wiper and help prevent the possibility of blow-out due to pressure trapping between the wiper and the main rod seal.

The standard Hallite 842 is molded in Hythane® 181, Hallite's high-performance polyurethane, for easy installation and excellent low temperature performance. The Hallite 820 is also offered in a number of other high-performance polyurethanes, such as Hythane® 371, a very aggressive scraping material with proven track record in forestry, mining, and aggregate industries. The wiper has been proven compatible with HFA (95/5) fluids, as used in longwall mining equipment, and with mineral oil.

FEATURES

- Precision trimmed wiper lips
- Long life and long wear
- Umbrella Wiper Technology™ protects housing from contaminants
- Easy to install

MATERIALS

This product comes in a number of material options to extend operating conditions. Contact your local Hallite technical team to decide which is best for your application. Use the part designator in the table below as the last digit of the part number to specify material choice when ordering. For further material details, please refer to the Hallite Material Table.

MATERIAL OPTIONS	Name	Type	Color	Part Designator
Standard	Hythane® 181	TPU-EU	Blue	0
Optional	Hythane® 361	TPU-AU	Orange	6
Optional	Hythane® 371	TPU-AU	Dark Green	7



TECHNICAL DETAILS

OPERATING CONDITIONS	METRIC	INCH
Maximum Speed	4.0 m/sec	12.0 ft/sec
Temperature Range	-45°C +110°C	-50°F +230°F

NOTE

Data given are maximum values and can apply depending on specific application. Maximum ratings of temperature, pressure, or operating speeds are dependent on fluid medium, surface, gap value, and other variables such as dynamic or static service. Maximum values are not intended for use together at the same time, e.g. max temperature and max pressure. Please contact your Hallite technical representative for application support.

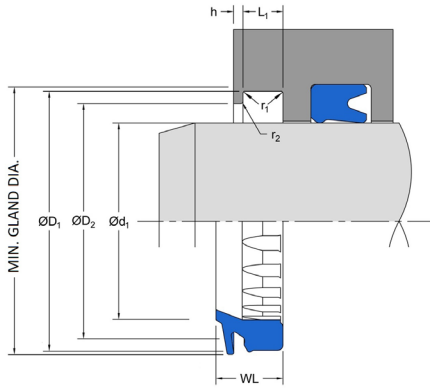
SURFACE ROUGHNESS	μmRa	μmRz	μmRt	μinRa	μinRz	μinRt
Dynamic Sealing Face $\varnothing d_1$	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face $\varnothing D_1, \varnothing D_2, h$	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces L_1	3.2 max	10 max	16 max	125 max	394 max	630 max

RADII				
Rod Diameter $\varnothing d_1$, mm	≤ 50	> 90	≤ 200	> 200
Max Fillet Rad r_1 , mm	0.40	0.40	0.40	0.80
Max Fillet Rad r_2 , mm	0.20	0.40	0.60	0.80
Rod Diameter $\varnothing d_1$, in	≤ 2.000	≤ 3.500	≤ 7.875	> 7.875
Max Fillet Rad r_1 , in	0.016	0.016	0.016	0.032
Max Fillet Rad r_2 , in	0.008	0.016	0.024	0.032

NOTE

Assembly chamfers are governed by the associated rod seal.

TOLERANCES	$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	L_1	h
mm	f9	H11	H11	+0.20 -0	+0.10 +0
in	f9	H11	H11	+0.008 -0	+0.004 +0



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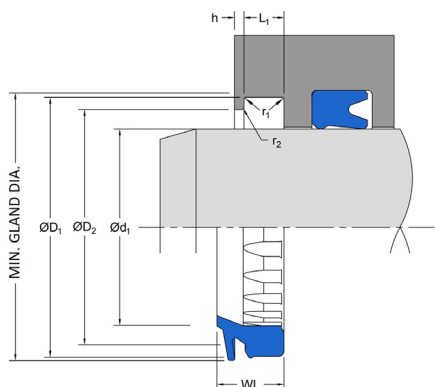
WIPER

Single-Lipped
Polyurethane with Umbrella Design Technology™

PART NUMBER RANGE

INCH										
Ød ₁	TOL f9	ØD ₁	TOL H11	ØD ₂	TOL H11	L ₁ +0.008 -0	h +0.004 +0	MIN GLAND DIM.	WL	PART No.
1.750	-0.001 -0.003	2.125	+0.007 0.000	1.995	+0.007 0.000	0.220	0.079	2.165	0.362	4543300
2.000	-0.001 -0.004	2.375	+0.007 0.000	2.245	+0.007 0.000	0.220	0.079	2.415	0.362	4543200
2.500	-0.001 -0.004	2.875	+0.007 0.000	2.745	+0.007 0.000	0.220	0.079	2.915	0.362	4708200
2.750	-0.001 -0.004	3.125	+0.007 0.000	2.995	+0.007 0.000	0.220	0.079	3.165	0.362	4554600
3.000	-0.001 -0.004	3.375	+0.009 0.000	3.245	+0.009 0.000	0.220	0.079	3.415	0.362	4543400
3.125	-0.001 -0.004	3.500	+0.009 0.000	3.370	+0.009 0.000	0.220	0.079	3.540	0.362	4543100
3.250	-0.001 -0.005	3.625	+0.009 0.000	3.495	+0.009 0.000	0.220	0.079	3.665	0.362	4721400
3.375	-0.001 -0.005	3.750	+0.009 0.000	3.620	+0.009 0.000	0.220	0.079	3.790	0.362	4554700
3.500	-0.001 -0.005	3.875	+0.009 0.000	3.745	+0.009 0.000	0.220	0.079	3.915	0.362	4818700
3.625	-0.001 -0.005	4.000	+0.009 0.000	3.870	+0.009 0.000	0.220	0.079	4.040	0.362	4543000
3.750	-0.001 -0.005	4.125	+0.009 0.000	3.995	+0.009 0.000	0.220	0.079	4.165	0.362	4708300
3.875	-0.001 -0.005	4.250	+0.009 0.000	4.120	+0.009 0.000	0.220	0.079	4.290	0.362	4523600
4.000	-0.001 -0.005	4.375	+0.009 0.000	4.245	+0.009 0.000	0.220	0.079	4.415	0.362	4708400
4.375	-0.001 -0.005	4.875	+0.010 0.000	4.715	+0.009 0.000	0.312	0.080	4.915	0.472	4707800
4.750	-0.002 -0.006	5.250	+0.010 0.000	5.090	+0.010 0.000	0.312	0.080	5.290	0.472	4547300
5.000	-0.002	5.500	+0.010	5.340	+0.010	0.312	0.080	5.540	0.472	4708500





PART NUMBER RANGE

INCH										
Ød ₁	TOL f ₉	ØD ₁	TOL H11	ØD ₂	TOL H11	L ₁ +0.008 -0	h +0.004 +0	MIN GLAND DIM.	WL	PART No.
	-0.006		0.000		0.000					
5.250	-0.002	5.750	+0.010	5.590	+0.010	0.312	0.080	5.790	0.472	4707900
	-0.006		0.000		0.000					
5.750	-0.002	6.250	+0.010	6.090	+0.010	0.312	0.080	6.290	0.472	4547400
	-0.006		0.000		0.000					
6.000	-0.002	6.500	+0.010	6.340	+0.010	0.312	0.080	6.540	0.472	4708600
	-0.006		0.000		0.000					
6.250	-0.002	7.000	+0.010	6.745	+0.010	0.500	0.100	7.040	0.740	4708000
	-0.006		0.000		0.000					
6.750	-0.002	7.250	+0.012	7.090	+0.010	0.312	0.080	7.290	0.472	4547500
	-0.006		0.000		0.000					
7.000	-0.002	7.500	+0.012	7.340	+0.012	0.312	0.080	7.540	0.472	4708700
	-0.006		0.000		0.000					
7.000	-0.002	7.750	+0.012	7.495	+0.012	0.500	0.100	7.790	0.740	4588400
	-0.006		0.000		0.000					
7.000	-0.002	8.000	+0.012	7.625	+0.012	0.500	0.125	8.040	0.740	4774100
	-0.006		0.000		0.000					
7.750	-0.002	8.250	+0.012	8.090	+0.012	0.312	0.080	8.290	0.472	4547600
	-0.006		0.000		0.000					
8.000	-0.002	8.500	+0.012	8.340	+0.012	0.312	0.080	8.540	0.472	4708800
	-0.006		0.000		0.000					
8.750	-0.002	9.250	+0.012	9.090	+0.012	0.312	0.080	9.290	0.472	4536700
	-0.006		0.000		0.000					