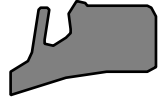


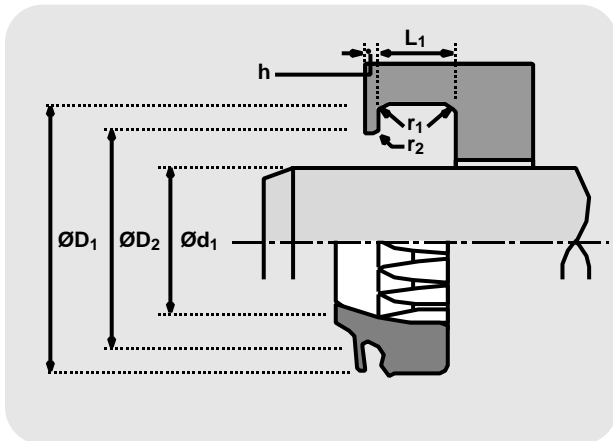
Wipers

Hallite



842

TECHNICAL DETAILS		METRIC		INCH	
OPERATING CONDITIONS					
MAXIMUM SPEED	4.0 m/sec			12.0 ft/sec	
TEMPERATURE RANGE	-45°C + 110°C			-50°F + 230°F	
SURFACE ROUGHNESS					
DYNAMIC SEALING FACE $\varnothing d_1$	0.1 ↔ 0.4 μmRa	4 max μmRt	4 ↔ 16 μinCLA		5 ↔ 18 μinRMS
STATIC SEALING FACE $\varnothing D_1 \varnothing D_2$	1.6 max	10 max	63 max		70 max
STATIC HOUSING FACES L_1	3.2 max	16 max	125 max		140 max
RADII					
ROD DIAMETER $\varnothing d_1$	50	90	200	> 200	
MAX FILLET RAD r_1 mm	0.4	0.4	0.4	0.8	
MAX FILLET RAD r_2 mm	0.2	0.4	0.6	0.8	
ROD DIAMETER $\varnothing d_1$	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	
TOLERANCES					
	$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	L_1	h
mm	f9	H11	H11	+0.2 -0	+0.10 +0
in	f9	H11	H11	+0.008 -0	+0.004 +0



DESIGN

The Hallite 842 rod wiper is designed to prevent the ingress of foreign particles and moisture into the cylinder. The profile has been specially developed for harsh environments, in particular the longwall mining industry.

The special feature is the flap on the wiping lip which covers the gland housing, preventing the water/slurry trap so common with conventional wipers and thus ingress of contamination around the outside of the wiper. The internal ribs on the inside diameter prevent the possibility of pressure trapping between the gland seal and the wiper and ensure correct support and guidance of the wiping lip, even in cases of high eccentricity as can occur between the outer stage gland and the inner cylinder of a roof support leg.

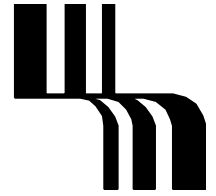
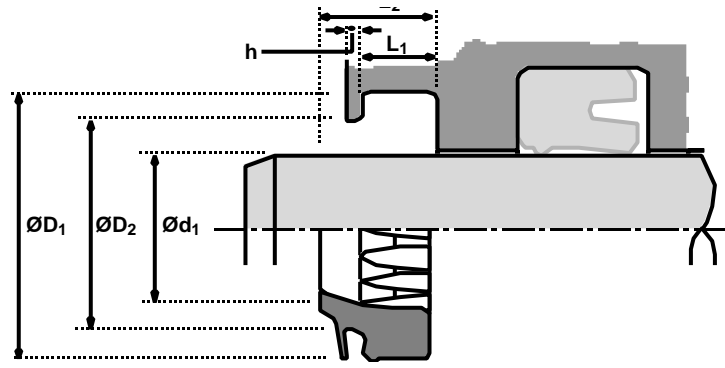
The Hallite 842 is manufactured in Hallite's high performance polyurethane, Hythane 181. The material has excellent compression set characteristics, excellent wear and abrasive resistance, proven compatibility with HFA (95/5) fluids, as used in longwall mining equipment, and with mineral oil.

NB: Part numbers suffixed by "‡" indicate housing sizes to meet ISO6195A.

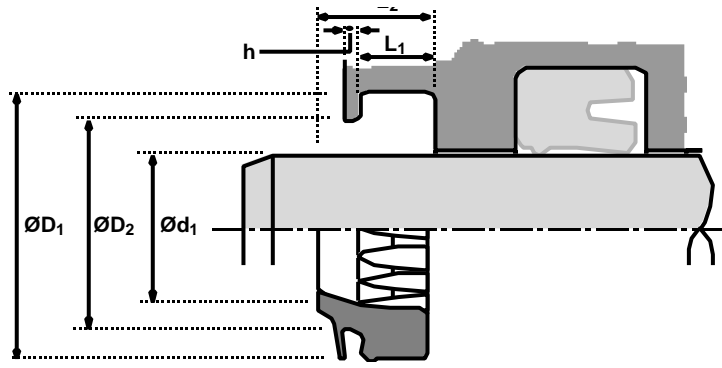
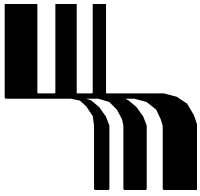
Wipers

Hallite 842

metric



$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL H11	$\varnothing D_2$	TOL H11	L_1 +0.2 - 0	L_2	h +0.1 - 0	PART No.
32	-0.025 -0.087	40.0	+0.16 +0.00	37.5	+0.16 +0.00	5.0	8.0	1.50	4714900‡
35	-0.025 -0.087	45.0	+0.16 +0.00	42.0	+0.16 +0.00	6.3	10.0	1.50	4515300
36	-0.025 -0.087	44.0	+0.16 +0.00	41.5	+0.16 +0.00	5.0	8.0	1.50	4715000‡
38	-0.025 -0.087	46.0	+0.16 +0.00	43.0	+0.16 +0.00	5.3	8.0	1.50	4568700
40	-0.025 -0.087	48.0	+0.16 +0.00	45.0	+0.16 +0.00	5.0	8.0	1.50	4536500‡
45	-0.025 -0.087	53.0	+0.19 +0.00	50.5	+0.19 +0.00	5.0	8.0	1.50	4715100‡
50	-0.025 -0.087	58.0	+0.19 +0.00	55.0	+0.19 +0.00	5.0	8.0	1.50	4533600‡
56	-0.030 -0.104	66.0	+0.19 +0.00	63.0	+0.19 +0.00	6.3	10.0	1.50	4715200‡
60	-0.030 -0.104	70.0	+0.19 +0.00	67.0	+0.19 +0.00	6.3	10.0	1.50	4557800
63	-0.030 -0.104	73.0	+0.19 +0.00	70.0	+0.19 +0.00	6.3	10.0	1.50	4536600‡
70	-0.030 -0.104	82.6	+0.22 +0.00	78.4	+0.19 +0.00	8.0	12.0	2.00	4480800
80	-0.030 -0.104	90.0	+0.22 +0.00	87.0	+0.22 +0.00	6.3	10.0	1.50	4715300‡
85	-0.036 -0.123	97.6	+0.22 +0.00	93.4	+0.22 +0.00	8.0	12.0	2.00	4521800
90	-0.036 -0.123	102.6	+0.22 +0.00	98.4	+0.22 +0.00	8.0	12.0	2.00	4512500
95	-0.036 -0.123	110.0	+0.22 +0.00	105.0	+0.22 +0.00	9.5	14.0	2.80	4536900
100	-0.036 -0.123	114.0	+0.22 +0.00	109.9	+0.22 +0.00	8.0	12.0	1.50	4536000
100	-0.036 -0.123	115.0	+0.22 +0.00	108.4	+0.22 +0.00	9.5	14.0	2.00	4589500‡
105	-0.036 -0.123	120.0	+0.22 +0.00	115.0	+0.22 +0.00	9.5	14.0	2.50	4532100
110	-0.036 -0.123	125.0	+0.25 +0.00	120.0	+0.22 +0.00	9.5	14.0	2.50	4715400‡
120	-0.036 -0.123	135.0	+0.25 +0.00	130.0	+0.25 +0.00	9.5	14.0	2.00	4580800
125	-0.043 -0.143	140.0	+0.25 +0.00	135.0	+0.25 +0.00	9.5	14.0	2.00	4715500‡
130	-0.043 -0.143	145.0	+0.25 +0.00	140.0	+0.25 +0.00	9.5	14.0	2.25	4491700
140	-0.043 -0.143	155.0	+0.25 +0.00	150.0	+0.25 +0.00	9.5	14.0	2.00	4555900‡



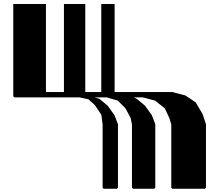
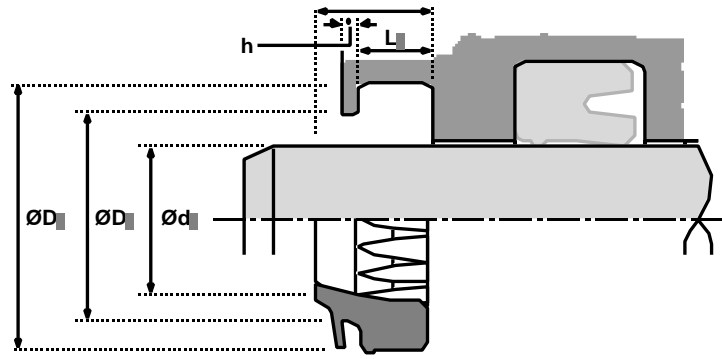
Wipers
Hallite
842
 metric

$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL H11	$\varnothing D_2$	TOL H11	L_1 +0.2 - 0	L_2	h +0.1 - 0	PART No.
145	-0.043 -0.143	160.0	+0.25 +0.00	155.0	+0.25 +0.00	9.5	14.0	2.25	4570200
155	-0.043 -0.143	170.0	+0.25 +0.00	165.0	+0.25 +0.00	9.5	12.0	2.25	4535200
175	-0.043 -0.143	190.0	+0.29 +0.00	185.0	+0.29 +0.00	9.5	14.0	2.25	4552100
180	-0.043 -0.143	195.0	+0.29 +0.00	190.0	+0.29 +0.00	9.5	14.0	2.25	4491300‡
215	-0.050 -0.165	230	+0.29 +0.00	225.0	+0.29 +0.00	9.5	14.0	2.00	4705500

Wipers

Hallite 842

inch



$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL H11	$\varnothing D_2$	TOL H11	L_1 +0.008 - 0	L_2	h +0.004 - 0	PART No.
1.750	-0.0010 -0.0034	2.125	+0.007 +0.000	1.995	+0.007 +0.000	0.220	0.362	0.079	4543300
2.000	-0.0012 -0.0041	2.375	+0.007 +0.000	2.245	+0.007 +0.000	0.220	0.362	0.079	4543200
2.500	-0.0012 -0.0041	2.875	+0.007 +0.000	2.745	+0.007 +0.000	0.220	0.362	0.079	4708200
2.750	-0.0012 -0.0041	3.125	+0.007 +0.000	2.995	+0.007 +0.000	0.220	0.362	0.079	4554600
3.000	-0.0012 -0.0041	3.375	+0.009 +0.000	3.245	+0.009 +0.000	0.220	0.362	0.079	4543400
3.125	-0.0012 -0.0041	3.500	+0.009 +0.000	3.370	+0.009 +0.000	0.220	0.362	0.079	4543100
3.375	-0.0014 -0.0048	3.750	+0.009 +0.000	3.620	+0.009 +0.000	0.220	0.362	0.079	4554700
3.625	-0.0014 -0.0048	4.000	+0.009 +0.000	3.870	+0.009 +0.000	0.220	0.362	0.079	4543000
3.750	-0.0014 -0.0048	4.125	+0.009 +0.000	3.995	+0.009 +0.000	0.220	0.362	0.079	4708300
3.875	-0.0014 -0.0048	4.250	+0.009 +0.000	4.120	+0.009 +0.000	0.220	0.362	0.079	4523600
4.000	-0.0014 -0.0048	4.375	+0.009 +0.000	4.245	+0.009 +0.000	0.220	0.362	0.079	4708400
4.375	-0.0014 -0.0048	4.875	+0.010 +0.000	4.715	+0.010 +0.000	0.312	0.472	0.080	4707800
4.750	-0.0014 -0.0048	5.250	+0.010 +0.000	5.090	+0.010 +0.000	0.312	0.472	0.080	4547300
5.000	-0.0016 -0.0056	5.500	+0.010 +0.000	5.340	+0.010 +0.000	0.312	0.472	0.080	4708500
5.250	-0.0016 -0.0056	5.750	+0.010 +0.000	5.590	+0.010 +0.000	0.312	0.472	0.080	4707900
5.750	-0.0016 -0.0056	6.250	+0.010 +0.000	6.090	+0.010 +0.000	0.312	0.472	0.080	4547400
6.000	-0.0016 -0.0056	6.500	+0.010 +0.000	6.340	+0.010 +0.000	0.312	0.472	0.080	4708600
6.250	-0.0016 -0.0056	7.000	+0.010 +0.000	6.745	+0.010 +0.000	0.500	0.740	0.100	4708000
6.750	-0.0016 -0.0056	7.250	+0.012 +0.000	7.090	+0.010 +0.000	0.312	0.472	0.080	4547500
7.000	-0.0020 -0.0065	7.500	+0.012 +0.000	7.340	+0.012 +0.000	0.312	0.472	0.080	4708700
7.000	-0.0020 -0.0065	7.750	+0.012 +0.000	7.495	+0.012 +0.000	0.500	0.740	0.100	4588400
7.750	-0.0020 -0.0065	8.250	+0.012 +0.000	8.090	+0.012 +0.000	0.312	0.472	0.080	4547600
8.000	-0.0020 -0.0065	8.500	+0.012 +0.000	8.340	+0.012 +0.000	0.312	0.472	0.080	4708800
8.750	-0.0020 -0.0065	9.250	+0.012 +0.000	9.090	+0.012 +0.000	0.312	0.472	0.080	4536700