

Design

The Hallite 33 wiper has a lip designed to remove lightly adhered dirt from the rod i.e. mud, dust or moisture.

The wiper is manufactured from a hard nitrile rubber suitable for installing in a grooved housing. Rod diameters ($\varnothing d_1$) of 20mm and below require a two piece housing.

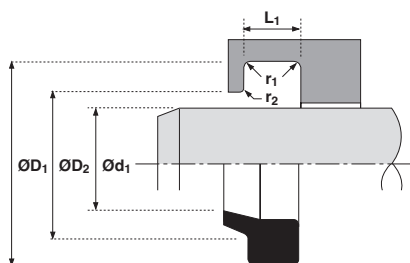
To prevent dirt passing the outside of the wiper and to reduce the pumping action, the outside diameter is an interference fit with the housing. Certain sizes of the standard Hallite 33 metric range are suitable for ISO 6195 Housing Type A.

It should also be noted that the Hallite 33 inch profile differs from the metric profile.

NB: Part numbers suffixed by “†” indicate housing sizes to meet ISO6195A. Many of the metric sizes are also available as polyester wipers – see Hallite 38.

Features

- General purpose wiper
- Wide size ranges
- Effective seal on housing as well as rod



Technical details

Operating conditions

Maximum Speed	4.0 m/sec
Temperature Range	-30°C +100°C

Surface roughness

	μmRa	μmRt
Dynamic Sealing Face $\varnothing d_1$	0.1 < > 0.4	4 max
Static Sealing Face $\varnothing D_1$ $\varnothing D_2$	2.5 max	16 max
Static Housing Faces L_1	2.5 max	16 max

Radii

Rod Diameter $\varnothing d_1$ mm Max	≤ 50	≤ 90
Fillet Rad r_1 mm	0.4	0.4
Max Fillet Rad r_2 mm	0.2	0.4

Inch

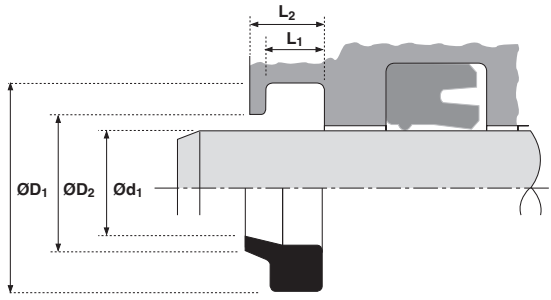
12.0 ft/sec
-22°F +212°F

$\mu inCLA$	$\mu inRMS$
4 < > 16	5 < > 18
100 max	111 max
100 max	111 max

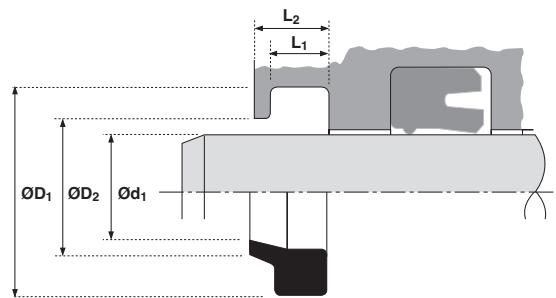
Tolerances

	$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	L_1
mm	f9	H11	H11	+0.2 -0





Ød ₁	TOL f ₉	ØD ₁	TOL H11	ØD ₂	TOL H11	L ₁ +0.2 - 0	L ₂	PART No.
12	-0.016 -0.059	20.0	+0.13 +0.00	16.0	+0.11 +0.00	4.0	6.0	2232500
14	-0.016 -0.059	22.0	+0.13 +0.00	18.0	+0.11 +0.00	4.0	6.0	2232600
16	-0.016 -0.059	24.0	+0.13 +0.00	20.0	+0.13 +0.00	4.0	6.0	2232800
18	-0.016 -0.059	26.0	+0.13 +0.00	22.0	+0.13 +0.00	4.0	6.0	2232900
20	-0.020 -0.072	28.0	+0.13 +0.00	24.0	+0.13 +0.00	4.0	6.0	2233000
22	-0.020 -0.072	30.0	+0.13 +0.00	26.0	+0.13 +0.00	4.0	6.0	2233100
25	-0.020 -0.072	33.0	+0.16 +0.00	29.0	+0.13 +0.00	4.0	6.0	2233200
25	-0.020 -0.072	33.0	+0.16 +0.00	30.5	+0.16 +0.00	5.0	6.4	6586200‡
28	-0.020 -0.072	36.0	+0.16 +0.00	32.0	+0.16 +0.00	4.0	6.0	2233300
28	-0.020 -0.072	36.0	+0.16 +0.00	33.5	+0.16 +0.00	5.0	6.4	6586300‡
30	-0.020 -0.072	42.0	+0.16 +0.00	36.0	+0.16 +0.00	6.0	9.0	2233400
32	-0.025 -0.087	40.0	+0.16 +0.00	37.5	+0.16 +0.00	5.0	6.4	6586400‡
32	-0.025 -0.087	44.0	+0.16 +0.00	38.0	+0.16 +0.00	6.0	9.0	2233500
35	-0.025 -0.087	47.0	+0.16 +0.00	41.0	+0.16 +0.00	6.0	9.0	2233600
36	-0.025 -0.087	44.0	+0.16 +0.00	41.5	+0.16 +0.00	5.0	6.4	6586500‡
36	-0.025 -0.087	48.0	+0.16 +0.00	42.0	+0.16 +0.00	6.0	9.0	2233700
40	-0.025 -0.087	48.0	+0.16 +0.00	45.5	+0.16 +0.00	5.0	6.4	6586600‡
40	-0.025 -0.087	52.0	+0.19 +0.00	46.0	+0.16 +0.00	6.0	9.0	2233800
42	-0.025 -0.087	54.0	+0.19 +0.00	48.0	+0.16 +0.00	6.0	9.0	2233900
45	-0.025 -0.087	53.0	+0.19 +0.00	50.5	+0.19 +0.00	5.0	6.4	6586700‡
45	-0.025 -0.087	57.0	+0.19 +0.00	51.0	+0.19 +0.00	6.0	9.0	2234000
50	-0.025 -0.087	58.0	+0.19 +0.00	55.5	+0.19 +0.00	5.0	6.4	6586800‡
50	-0.025 -0.087	62.0	+0.19 +0.00	55.0	+0.19 +0.00	6.0	9.0	2234200
55	-0.030 -0.104	67.0	+0.19 +0.00	61.0	+0.19 +0.00	6.0	9.0	2234300
56	-0.030 -0.104	66.0	+0.19 +0.00	63.0	+0.19 +0.00	6.3	8.1	6586900‡



Ød ₁	TOL f ₉	ØD ₁	TOL H11	ØD ₂	TOL H11	L ₁ +0.2 - 0	L ₂	PART No.
56	-0.030 -0.104	68.0	+0.19 +0.00	62.0	+0.19 +0.00	6.0	9.0	2234400
60	-0.030 -0.104	72.0	+0.19 +0.00	66.0	+0.19 +0.00	6.0	9.0	2234500
63	-0.030 -0.104	73.0	+0.19 +0.00	70.0	+0.19 +0.00	6.3	8.1	6587000‡
63	-0.030 -0.104	75.0	+0.19 +0.00	69.0	+0.19 +0.00	6.0	9.0	2234600
65	-0.030 -0.104	77.0	+0.19 +0.00	71.0	+0.19 +0.00	6.0	9.0	2234700
70	-0.030 -0.104	80.0	+0.19 +0.00	77.0	+0.19 +0.00	6.3	8.1	6587100‡
70	-0.030 -0.104	82.0	+0.22 +0.00	76.0	+0.19 +0.00	6.0	9.0	2234800
80	-0.030 -0.104	90.0	+0.22 +0.00	87.0	+0.22 +0.00	6.3	8.1	6587200‡
90	-0.036 -0.123	100.0	+0.22 +0.00	97.0	+0.22 +0.00	6.3	8.1	6587300‡
90	-0.036 -0.123	106.0	+0.22 +0.00	98.0	+0.22 +0.00	8.0	12.0	2235200
100	-0.036 -0.123	115.0	+0.22 +0.00	110.0	+0.22 +0.00	9.5	12.5	6587400‡
100	-0.036 -0.123	116.0	+0.22 +0.00	108.0	+0.22 +0.00	8.0	12.0	2235300
105	-0.036 -0.123	121.0	+0.25 +0.00	113.0	+0.22 +0.00	8.0	12.0	2235400
110	-0.036 -0.123	125.0	+0.25 +0.00	120.0	+0.22 +0.00	9.5	12.5	6587500‡
125	-0.043 -0.143	140.0	+0.25 +0.00	135.0	+0.25 +0.00	9.5	12.5	6587600‡
140	-0.043 -0.143	155.0	+0.25 +0.00	150.0	+0.25 +0.00	9.5	12.5	6587700‡
140	-0.043 -0.143	156.0	+0.25 +0.00	148.0	+0.25 +0.00	8.0	12.0	1222800
150	-0.043 -0.143	166.0	+0.25 +0.00	158.0	+0.25 +0.00	8.0	12.0	1222900
160	-0.043 -0.143	175.0	+0.25 +0.00	170.0	+0.25 +0.00	9.5	12.5	6587800‡
160	-0.043 -0.143	176.0	+0.25 +0.00	168.0	+0.25 +0.00	8.0	12.0	1223000
180	-0.043 -0.143	200.0	+0.29 +0.00	190.0	+0.29 +0.00	10.0	15.0	1226300
190	-0.050 -0.165	210.0	+0.29 +0.00	200.0	+0.29 +0.00	10.0	15.0	1226400
200	-0.050 -0.165	220.0	+0.29 +0.00	210.0	+0.29 +0.00	10.0	15.0	1226500
220	-0.050 -0.165	240.0	+0.29 +0.00	233.5	+0.29 +0.00	12.5	16.6	6588100‡