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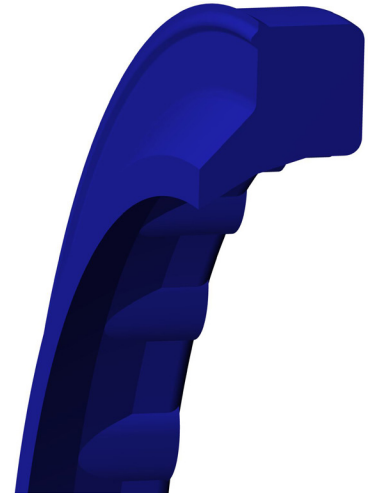
WIPER

*Single-Lipped
Designed for AN Style Housings*

DESIGN

The Hallite 521 snap-in rod wiper is designed for light-duty applications and to fit typical AN housings. The proportions of the wiping lip ensure that contact is maintained with the surface of the rod to remove contaminants.

The Hallite 521 is available in wide range of Hythane® polyurethanes and polyester materials to best suit your application needs.



FEATURES

- Precision trimmed sealing lip
- Low wear
- Crush lip and face bead design provides effective seal on housing
- Long life

MATERIALS

As standard, this product comes in the following material. Contact your local Hallite technical team if you would like to find out if this profile can be made in a custom material to suit your application. For further material details, please refer to the Hallite Material Table.

MATERIAL OPTIONS	Name	Seal Shell	Seal Color
Standard	Hythane® 251	TPU-EU	Dark Blue

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.

NOTE

Not designed to scrape ice.

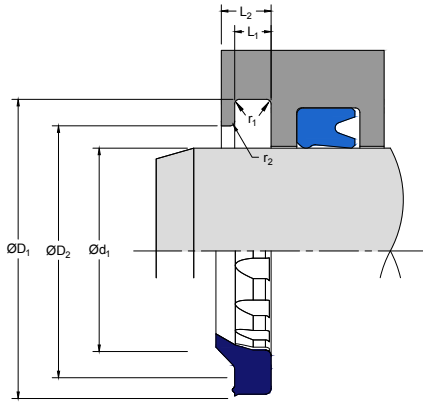
SURFACE ROUGHNESS	μmRa	μmRz	μmRt	μinRa	μinRz	μinRt
Dynamic Sealing Face $\text{Ø}d_1$	0.1 - 0.4	1.6 max	4 max	4-16	63 max	157 max
Static Sealing Face $\text{Ø}D_1, \text{Ø}D_2$	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces L_1	3.2 max	10 max	16 max	125 max	394 max	630 max

RADII	
Max Fillet Rad r_1 in	0.010
Max Fillet Rad r_2 in	0.020

NOTE

Assembly chamfers are governed by the associated rod seal.

TOLERANCES	$\text{Ø}d_1$	$\text{Ø}D_1$	$\text{Ø}D_2$	L_1
in	f9	+0.004 -0	+0.005 -0	+0.003 -0



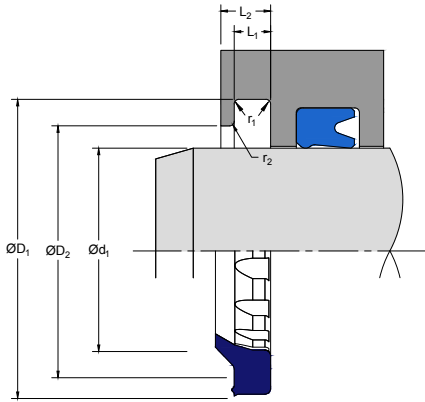
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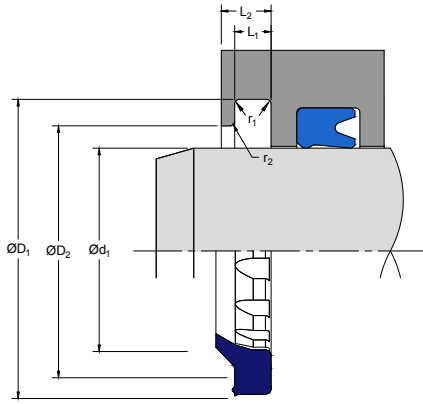
PART NUMBER RANGE

INCH						
$\varnothing d_1$	TOL f9	$\varnothing D_1$ +0.004-0	$\varnothing D_2$ +0.005-0	L_1 +0.003-0	L_2	PART No.
0.500	-0.001 -0.002	0.760	0.647	0.107	0.187	8883510
0.563	-0.001 -0.002	0.822	0.710	0.107	0.187	8896300
0.625	-0.001 -0.002	0.885	0.772	0.107	0.187	8883610
0.687	-0.001 -0.002	0.947	0.834	0.107	0.187	8896400
0.750	-0.001 -0.003	1.010	0.897	0.107	0.187	8883710
0.812	-0.001 -0.003	1.084	0.960	0.107	0.187	8896500
0.875	-0.001 -0.003	1.147	1.023	0.107	0.187	8883810
0.937	-0.001 -0.003	1.209	1.085	0.107	0.187	8896600
1.000	-0.001 -0.003	1.272	1.148	0.107	0.187	8883910
1.125	-0.001 -0.003	1.397	1.273	0.107	0.187	8884010
1.187	-0.001 -0.003	1.459	1.335	0.107	0.187	8896700
1.250	-0.001 -0.003	1.522	1.398	0.107	0.187	8884110
1.312	-0.001 -0.003	1.614	1.480	0.107	0.187	8884200
1.375	-0.001 -0.003	1.677	1.542	0.107	0.187	8884310
1.500	-0.001 -0.003	1.802	1.668	0.107	0.187	8884410
1.625	-0.001 -0.003	1.927	1.793	0.107	0.187	8884500



PART NUMBER RANGE

INCH						
$\varnothing d_1$	TOL f9	$\varnothing D_1$ +0.004-0	$\varnothing D_2$ +0.005-0	L_1 +0.003-0	L_2	PART No.
1.750	-0.001 -0.003	2.052	1.918	0.107	0.187	8884610
1.875	-0.001 -0.003	2.177	2.043	0.107	0.187	8884700
2.000	-0.001 -0.004	2.302	2.178	0.107	0.187	8884810
2.125	-0.001 -0.004	2.427	2.303	0.107	0.187	8884900
2.250	-0.001 -0.004	2.552	2.428	0.107	0.187	8885000
2.375	-0.001 -0.004	2.677	2.553	0.107	0.187	8896800
2.500	-0.001 -0.004	2.802	2.678	0.107	0.187	8885110
2.625	-0.001 -0.004	2.989	2.803	0.122	0.203	8896900
2.875	-0.001 -0.004	3.239	3.084	0.122	0.203	8885300
3.000	-0.001 -0.004	3.364	3.209	0.122	0.203	8885410
3.125	-0.001 -0.004	3.489	3.334	0.122	0.203	8897000
3.375	-0.001 -0.005	3.729	3.584	0.122	0.203	8885600
3.500	-0.001 -0.005	3.864	3.709	0.122	0.203	8885710
3.625	-0.001 -0.005	3.989	3.834	0.122	0.203	8885800
3.750	-0.001 -0.005	4.114	3.959	0.122	0.203	8885900
3.875	-0.001 -0.005	4.239	4.087	0.122	0.203	8886000



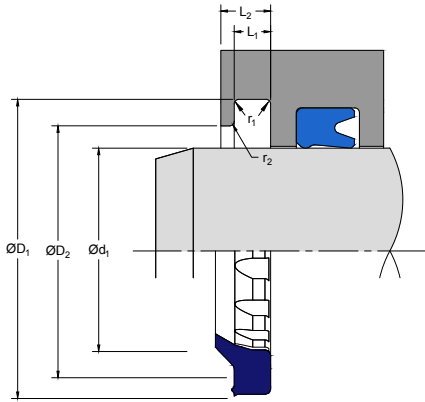
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INCH						
$\text{Ø}d_1$	TOL f9	$\text{Ø}D_1$ +0.004-0	$\text{Ø}D_2$ +0.005-0	L_1 +0.003-0	L_2	PART No.
4.000	-0.001 -0.005	4.427	4.240	0.138	0.203	8886110
4.125	-0.001 -0.005	4.552	4.365	0.138	0.218	8897100
4.250	-0.001 -0.005	4.677	4.490	0.138	0.218	8886200
4.750	-0.002 -0.006	5.177	4.990	0.138	0.218	8886400
4.875	-0.002 -0.006	5.300	5.115	0.138	0.218	8897400
5.000	-0.002 -0.006	5.427	5.240	0.138	0.218	8934510
5.125	-0.002 -0.006	5.552	5.365	0.138	0.218	8886600
5.250	-0.002 -0.006	5.667	5.490	0.138	0.218	8897500
5.375	-0.002 -0.006	5.802	5.615	0.138	0.218	8897600
5.625	-0.002 -0.006	6.114	5.897	0.154	0.250	8897700
5.750	-0.002 -0.006	6.239	6.022	0.154	0.250	8897800
6.000	-0.002 -0.006	6.489	6.272	0.154	0.250	8934610
6.250	-0.002 -0.006	6.739	6.522	0.154	0.250	8898000
6.500	-0.002 -0.006	6.989	6.772	0.154	0.250	8886900
7.250	-0.002 -0.006	7.739	7.522	0.154	0.250	8898300
7.500	-0.002 -0.006	7.989	7.772	0.154	0.250	8898400



PART NUMBER RANGE

INCH						
$\text{Ø}d_1$	TOL f9	$\text{Ø}D_1$ +0.004-0	$\text{Ø}D_2$ +0.005-0	L_1 +0.003-0	L_2	PART No.
7.750	-0.002 -0.006	8.239	8.022	0.154	0.250	8898500
8.000	-0.002 -0.006	8.489	8.272	0.154	0.250	8887100
8.500	-0.002 -0.006	8.989	8.772	0.154	0.250	8898600
9.000	-0.002 -0.006	9.989	9.772	0.154	0.250	8898800
10.000	-0.002 -0.007	10.489	10.272	0.154	0.250	8898900
10.500	-0.002 -0.007	10.989	10.772	0.154	0.250	8899000
11.000	-0.002 -0.007	11.489	11.272	0.154	0.250	8899100
11.500	-0.002 -0.007	11.989	11.772	0.154	0.250	8899200