



Design

The Hallite 521 snap-in rod wiper has been designed for light to medium duty applications for typical AN housing sizes. The proportions of the wiping lip ensure that contact is maintained with the surface of the rod to remove contaminants.

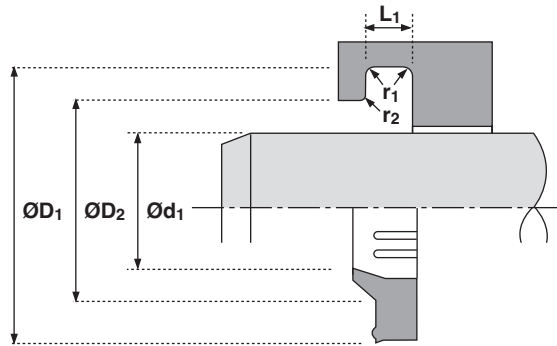
The moulded ribs on the internal diameter provides extra stability to the seal and help prevent pressure trapping. The outside diameter contacts the housing diameter and has a sealing lip to prevent moisture entering the groove.

The Hallite 521 is available in polyurethane or a polyester based compound.

Materials

The part numbers shown are for polyurethane. If you require this product in polyester, please contact your local Hallite sales office.

- Features**
- 'Crush Lip' and 'Face Bead' provide effective seal on housing
 - Low wear and long life
 - Precision trimmed sealing lip
 - Pressure relief ribs
 - Polyester material for heavy duty applications



Technical details

Operating conditions

Maximum Speed	4.0 m/sec
Temperature Range	-40°C +110°C

Inch

Maximum Speed	12.0 ft/sec
Temperature Range	-50°F +230°F

Surface roughness

	µmRa	µmRt	µinCLA	µinRMS
Dynamic Sealing Face Ød ₁	0.1 < > 0.4	4 max	4 < > 16	5 < > 18
Static Sealing Face Ød ₁ ØD ₂	1.6 max	10 max	63 max	70 max
Static Housing Faces L ₁	3.2 max	16 max	125 max	140 max

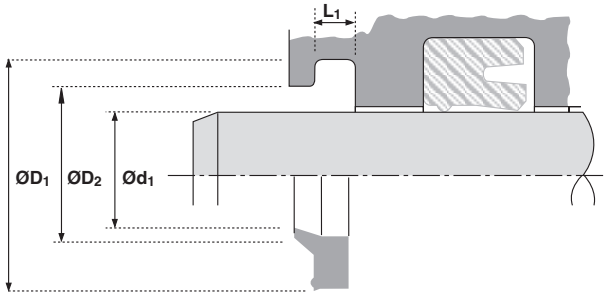
Radii

Max Fillet Rad r ₁ in	0.010
Min Fillet Rad r ₂ in	0.020

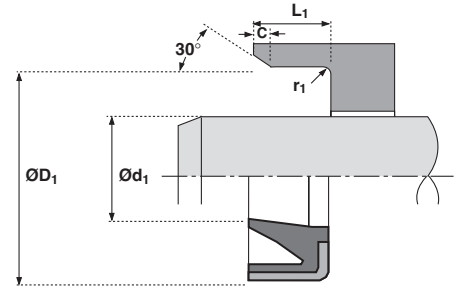
Tolerances

in	Ød ₁	ØD ₁	ØD ₂	L ₁
	f9	+0.004 -0	+0.005 -0	+0.003 -0

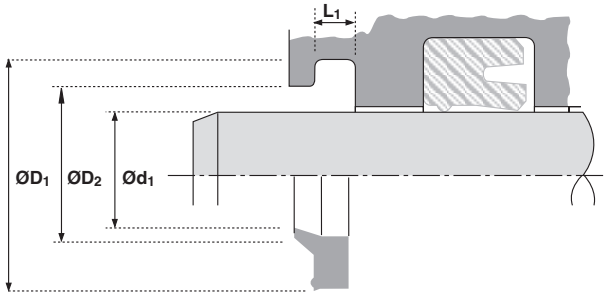




Ød1	TOL f9	ØD1	TOL	ØD2	TOL	L1	TOL	L2	PART No.
0.500	-0.0006 -0.0023	0.760	+0.004 -0.000	0.647	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8883510
0.563	-0.0006 -0.0023	0.822	+0.004 -0.000	0.710	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8896300
0.625	-0.0006 -0.0023	0.885	+0.004 -0.000	0.772	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8883610
0.687	-0.0006 -0.0023	0.947	+0.004 -0.000	0.834	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8896400
0.750	-0.0008 -0.0028	1.010	+0.004 -0.000	0.897	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8883710
0.812	-0.0008 -0.0028	1.084	+0.004 -0.000	0.960	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8896500
0.875	-0.0008 -0.0028	1.147	+0.004 -0.000	1.023	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8883810
0.937	-0.0008 -0.0028	1.209	+0.004 -0.000	1.085	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8896600
1.000	-0.0008 -0.0028	1.272	+0.004 -0.000	1.148	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8883910
1.125	-0.0008 -0.0028	1.397	+0.004 -0.000	1.273	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884010
1.187	-0.0008 -0.0028	1.459	+0.004 -0.000	1.335	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8896700
1.250	-0.0010 -0.0034	1.522	+0.004 -0.000	1.398	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884110
1.312	-0.0008 -0.0028	1.614	+0.004 -0.000	1.480	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884200
1.375	-0.0010 -0.0034	1.677	+0.004 -0.000	1.542	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884310
1.500	-0.0010 -0.0034	1.802	+0.004 -0.000	1.668	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884410
1.625	-0.0008 -0.0028	1.927	+0.004 -0.000	1.793	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884500
1.750	-0.0010 -0.0034	2.052	+0.004 -0.000	1.918	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884610
1.875	-0.0008 -0.0028	2.177	+0.004 -0.000	2.043	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884700
2.000	-0.0012 -0.0041	2.302	+0.004 -0.000	2.178	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884810
2.125	-0.0012 -0.0041	2.427	+0.004 -0.000	2.303	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8884900
2.250	-0.0012 -0.0041	2.552	+0.004 -0.000	2.428	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8885000
2.375	-0.0012 -0.0041	2.677	+0.004 -0.000	2.553	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8896800



$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL	$\varnothing D_2$	TOL	L_1	TOL	L_2	PART No.
2.500	-0.0012 -0.0041	2.802	+0.004 -0.000	2.678	+0.005 -0.000	0.107	+0.003 -0.000	0.187	8885110
2.625	-0.0012 -0.0041	2.989	+0.004 -0.000	2.803	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8896900
2.750	-0.0012 -0.0041	3.114	+0.004 -0.000	2.959	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885200
2.875	-0.0012 -0.0041	3.239	+0.004 -0.000	3.084	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885300
3.000	-0.0012 -0.0041	3.364	+0.004 -0.000	3.209	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885410
3.125	-0.0012 -0.0041	3.489	+0.004 -0.000	3.334	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8897000
3.250	-0.0012 -0.0041	3.614	+0.004 -0.000	3.459	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885500
3.375	-0.0012 -0.0041	3.729	+0.004 -0.000	3.584	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885600
3.500	-0.0014 -0.0048	3.864	+0.004 -0.000	3.709	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885710
3.625	-0.0012 -0.0041	3.989	+0.004 -0.000	3.834	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885800
3.750	-0.0012 -0.0041	4.114	+0.004 -0.000	3.959	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8885900
3.875	-0.0012 -0.0041	4.239	+0.004 -0.000	4.087	+0.005 -0.000	0.122	+0.003 -0.000	0.203	8886000
4.000	-0.0014 -0.0048	4.427	+0.004 -0.000	4.240	+0.005 -0.000	0.138	+0.003 -0.000	0.203	8886110
4.125	-0.0012 -0.0041	4.552	+0.004 -0.000	4.365	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8897100
4.250	-0.0012 -0.0041	4.677	+0.004 -0.000	4.490	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8886200
4.500	-0.0012 -0.0041	4.927	+0.004 -0.000	4.740	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8886300
4.750	-0.0012 -0.0041	5.177	+0.004 -0.000	4.990	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8886400
4.875	-0.0012 -0.0041	5.300	+0.004 -0.000	5.115	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8897400
5.000	-0.0012 -0.0041	5.427	+0.004 -0.000	5.240	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8886500
5.125	-0.0012 -0.0041	5.552	+0.004 -0.000	5.365	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8886600
5.250	-0.0012 -0.0041	5.667	+0.004 -0.000	5.490	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8897500
5.375	-0.0012 -0.0041	5.802	+0.004 -0.000	5.615	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8897600



Ød1	TOL f9	ØD1	TOL	ØD2	TOL	L1	TOL	L2	PART No.
5.500	-0.0012 -0.0041	5.927	+0.004 -0.000	5.740	+0.005 -0.000	0.138	+0.003 -0.000	0.218	8886700
5.625	-0.0012 -0.0041	6.114	+0.004 -0.000	5.897	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8897700
5.750	-0.0012 -0.0041	6.239	+0.004 -0.000	6.022	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8897800
6.000	-0.0012 -0.0041	6.489	+0.004 -0.000	6.272	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8886800
6.250	-0.0012 -0.0041	6.739	+0.004 -0.000	6.522	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898000
6.500	-0.0012 -0.0041	6.989	+0.004 -0.000	6.772	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8886900
6.750	-0.0012 -0.0041	7.239	+0.004 -0.000	7.022	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8896200
7.000	-0.0012 -0.0041	7.489	+0.004 -0.000	7.272	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8887000
7.250	-0.0012 -0.0041	7.739	+0.004 -0.000	7.522	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898300
7.500	-0.0012 -0.0041	7.989	+0.004 -0.000	7.772	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898400
7.750	-0.0012 -0.0041	8.239	+0.004 -0.000	8.022	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898500
8.000	-0.0012 -0.0041	8.489	+0.004 -0.000	8.272	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8887100
8.500	-0.0012 -0.0041	8.989	+0.004 -0.000	8.772	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898600
9.000	-0.0012 -0.0041	9.989	+0.004 -0.000	9.772	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898800
10.000	-0.0012 -0.0041	10.489	+0.004 -0.000	10.272	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8898900
10.500	-0.0012 -0.0041	10.989	+0.004 -0.000	10.772	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8899000
11.000	-0.0012 -0.0041	11.489	+0.004 -0.000	11.272	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8899100
11.500	-0.0012 -0.0041	11.989	+0.004 -0.000	11.772	+0.005 -0.000	0.154	+0.003 -0.000	0.250	8899200

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