

Hallite 

Hallite 820

High Performance Rod Wiper



www.hallite.com



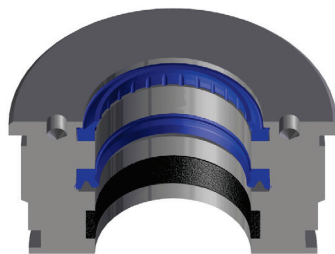
Designed with the same look and feel as Hallite's popular T842 and engineered to fit the same 'D' groove as our T520 wiper, the T820 wiper was developed specifically for harsher environments where the wiper is subject to numerous contaminants. This is common in agriculture, off-highway and forestry equipment.

What makes the T820 unique is the protective debris guard, which entirely covers the retaining groove. This feature, known as Hallite's Umbrella Wiper Technology, offers added protection to the integrity of the hydraulic system. Often with a normal 'D' style wiper, it is possible to trap liquids or debris in the wiper cavity or pocket around the O.D. of the wiper. This can eventually corrode the pocket or pass debris around the wiper, contaminating the entire system and resulting in downtime, as well as repair and warranty costs.

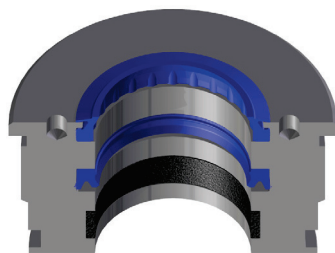
Another advantage of the T820 is the ease of installation. Unlike metal press-in wipers normally specified for harsh environments, the T820 can be installed without the use of special tooling.

The T820 also incorporates the performance I.D. ribs found on the T520 to enhance low friction operation, as well as prevent pressure trap between the wiper and the primary rod seal.

The standard material offering is the same hydrolysis-resistant Hythane® 181 polyurethane as other Hallite high performance seals. This material has excellent low temperature capabilities and compression set characteristics, along with excellent wear and abrasive resistance, and proven performance with a variety of fluids. The T820 is also offered in a number of other polyurethanes such as the Hythane® 361 and Hythane® 371, a very aggressive scraping material with a proven track record in forestry, mining and aggregate industries.



T520
Traditional 'D' Profile



T820

Features	Benefits
Umbrella Wiper Technology	<ul style="list-style-type: none"> Prevents traditional ingress of moisture and slurry Eliminates corrosion in wiper and gland housing Sheets water and debris away from rod and housing
ID Ribbing	<ul style="list-style-type: none"> Adds stability to the wiper Prevents pressure trapping Reduces friction
Materials	<ul style="list-style-type: none"> Premium seal materials Water, UV and chemical resistant Offers long life and sealability

“The Umbrella Wiper Technology entirely covers the retaining groove and offers added protection to the integrity of the hydraulic system.”

Technical details

Metric

Inch

Operating conditions

Maximum Speed 4.0 m/sec
 Temperature Range -45°C +110°C

12.0 ft/sec
 -50°F +230°F

Surface roughness

Dynamic Sealing Face $\varnothing d_1$ 1.6 max
 Static Sealing Face $\varnothing D_1$ $\varnothing D_2$ h 3.2 max
 Static Housing Faces L_1 16 max

μmRa 0.1 < > 0.4
 μmRt 4 max
 10 max
 16 max

$\mu inCLA$ 4 < > 16
 $\mu inRMS$ 5 < > 18
 70 max
 140 max

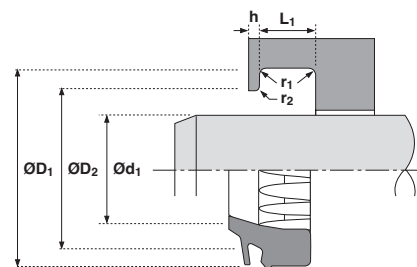
Radii

Max Fillet Rad r_1 in
 Max Fillet Rad r_2 in

0.016
 0.016

Tolerances
 in

$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	L_1	h
f9	± 0.003	± 0.005	+0.004 -0	+0.004 -0



$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL +0.003 -0	$\varnothing D_2$	TOL +0.005 -0	L_1	TOL +0.004 -0	L_2	h	TOL +0.004 -0	PART No.
1.125	-0.0008 -0.0028	1.500	+0.003 -0.003	1.375	+0.005 -0.005	0.187	+0.004 -0	0.281	0.094	+0.004 -0	4855600
1.250	-0.0010 -0.0034	1.625	+0.003 -0.003	1.500	+0.005 -0.005	0.187	+0.004 -0	0.281	0.094	+0.004 -0	4855700
1.375	-0.0010 -0.0034	1.750	+0.003 -0.003	1.625	+0.005 -0.005	0.187	+0.004 -0	0.281	0.094	+0.004 -0	4855800
1.500	-0.0010 -0.0034	1.875	+0.003 -0.003	1.750	+0.005 -0.005	0.187	+0.004 -0	0.281	0.094	+0.004 -0	4855900
1.750	-0.0010 -0.0034	2.125	+0.003 -0.003	2.000	+0.005 -0.005	0.187	+0.004 -0	0.281	0.094	+0.004 -0	4856000
2.000	-0.0012 -0.0041	2.500	+0.003 -0.003	2.332	+0.005 -0.005	0.250	+0.004 -0	0.375	0.125	+0.004 -0	4837800
2.250	-0.0012 -0.0041	2.750	+0.003 -0.003	2.582	+0.005 -0.005	0.250	+0.004 -0	0.375	0.125	+0.004 -0	4856100
2.500	-0.0012 -0.0041	3.000	+0.003 -0.003	2.832	+0.005 -0.005	0.250	+0.004 -0	0.375	0.125	+0.004 -0	4856200
3.000	-0.0012 -0.0041	3.500	+0.003 -0.003	3.332	+0.005 -0.005	0.250	+0.004 -0	0.375	0.125	+0.004 -0	4856300
3.500	-0.0014 -0.0048	4.000	+0.003 -0.003	3.832	+0.005 -0.005	0.250	+0.004 -0	0.375	0.125	+0.004 -0	4856400
4.000	-0.0014 -0.0048	4.500	+0.003 -0.003	4.332	+0.005 -0.005	0.250	+0.004 -0	0.375	0.125	+0.004 -0	4856500
4.500	-0.0014 -0.0048	5.250	+0.003 -0.003	4.998	+0.005 -0.005	0.375	+0.004 -0	0.562	0.187	+0.004 -0	4856600
5.000	-0.0017 -0.0056	5.750	+0.003 -0.003	5.498	+0.005 -0.005	0.375	+0.004 -0	0.562	0.187	+0.004 -0	4856700
6.000	-0.0017 -0.0056	6.750	+0.003 -0.003	6.498	+0.005 -0.005	0.375	+0.004 -0	0.562	0.187	+0.004 -0	4856800

NOTE $h + \varnothing D_2$ dimension should be verified by customer before purchasing.

Hallite

Hallite Seals

Hallite produces high performance hydraulic sealing solutions for the world's fluid power industry. The company enjoys an enviable reputation for high quality and reliability within the mobile hydraulics, mining, off-highway, construction, agriculture, mechanical handling and automation markets.

Hallite products, engineered in a wide variety of advanced materials, are chosen by leading manufacturers for their exceptional performance in the most demanding, safety-critical high specification applications.

Hallite operations are located in Australia, Brazil, Canada, China, France, Germany, India, Italy, the UK and the USA. All Hallite locations are committed to providing quality seals in the shortest possible time. Hallite combines carefully chosen and managed stocks in local markets, supported by a fast track moulding capability. All locations can now boast a CNC machining cell, branded Hallite Service, which can provide immediate delivery for non-standard and breakdown situations.

Additionally a worldwide network of service partners completes the global presence and ensures the full range of Hallite products is readily accessible.



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