

# 831

## WIPER

Single-Lipped  
Polyurethane  
Designed for Metric Housings

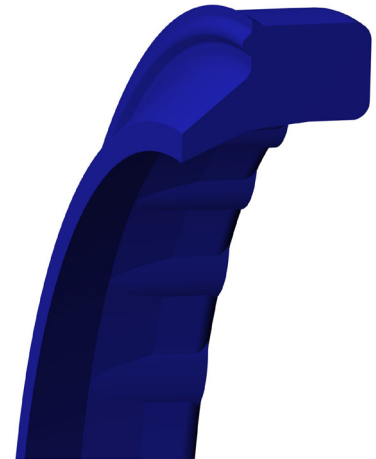
### DESIGN

The Hallite 831 single lipped, snap-in rod wiper is designed to fit metric housings and is interchangeable with many common European wiper styles. The proportions of the wiping lip ensure that contact is maintained with the surface of the rod to remove all deposits of mud and other forms of contamination except for those found in heavy-duty industrial applications.

The outside diameter of the seal incorporates a crush lip to provide interference fit with the housing and a face bead to ensure that the crush lip is not trapped in the corner of the housing. These features help prevent contaminant from entering the groove.

The moulded ribs on the internal diameter provide extra stability to the wiper and help prevent the possibility of blow-out due to pressure trapping between the wiper and the main rod seal.

The Hallite 831 is moulded in polyurethane for maximum wear resistance and performance.



### FEATURES

- Crush lip and face bead design provides effective seal on housing
- Ribs relieve pressure and improve stability
- Cost-effective solution

### 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	Type	Colour
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

Not designed to scrape ice

## 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.

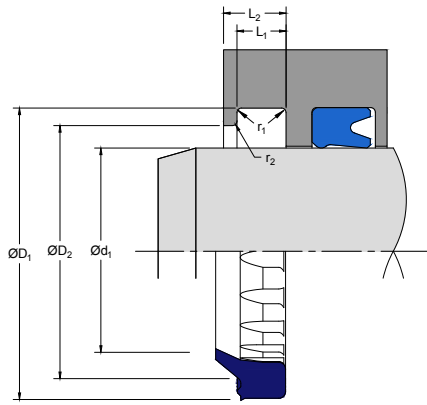
SURFACE ROUGHNESS	$\mu\text{mRa}$	$\mu\text{mRz}$	$\mu\text{mRt}$	$\mu\text{inRa}$	$\mu\text{inRz}$	$\mu\text{inRt}$
Dynamic Sealing Face $\varnothing d_1$	0.1 - 0.4	1.6 max	4 max	4 - 16	63 max	157 max
Static Sealing Face $\varnothing D_1, \varnothing D_2$	1.6 max	6.3 max	10 max	63 max	250 max	394 max
Static Housing Faces $L_1$	3.2 max	10 max	16 max	125 max	394 max	630 max

RADII		
Rod Diameter $\varnothing d_1$	$\leq 90$	$> 90$
Max Fillet Rad $r_1$ , mm	0.20	0.40
Max Fillet Rad $r_2$ , mm	0.40	0.40

## NOTE

Assembly chamfers are governed by the associated rod seal.

TOLERANCES	$\varnothing d_1$	$\varnothing D_1$	$\varnothing D_2$	$L_1$
mm	f9	H11	H11	+0.20 -0



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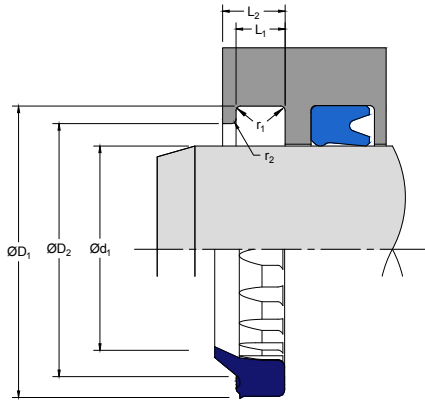
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### PART NUMBER RANGE

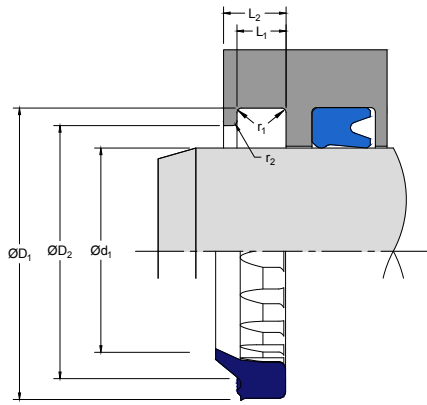
METRIC								
$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL H11	$\varnothing D_2$	TOL H11	$L_1$ +0.20-0	$L_2$	PART No.
12.00	-0.02 -0.06	18.60	+0.13 0.00	15.00	+0.11 0.00	3.80	5.30	4565800
14.00	-0.02 -0.06	20.60	+0.13 0.00	17.00	+0.11 0.00	3.80	5.30	4580000
16.00	-0.02 -0.06	22.60	+0.13 0.00	19.00	+0.13 0.00	3.80	5.30	4830600
16.00	-0.02 -0.06	24.60	+0.13 0.00	19.00	+0.13 0.00	5.30	7.00	4703800
18.00	-0.02 -0.06	24.60	+0.13 0.00	21.00	+0.13 0.00	3.80	5.30	4580100
18.00	-0.02 -0.06	26.60	+0.13 0.00	21.00	+0.13 0.00	5.30	7.00	4703900
20.00	-0.02 -0.07	28.60	+0.13 0.00	23.00	+0.13 0.00	5.30	7.00	4530600
22.00	-0.02 -0.07	30.60	+0.16 0.00	25.00	+0.13 0.00	5.30	7.00	4530700
25.00	-0.02 -0.07	33.60	+0.16 0.00	28.00	+0.13 0.00	5.30	7.00	4530800
28.00	-0.02 -0.07	36.60	+0.16 0.00	31.00	+0.16 0.00	5.30	7.00	4565900
30.00	-0.02 -0.07	38.60	+0.16 0.00	33.00	+0.16 0.00	5.30	7.00	4530900
32.00	-0.03 -0.09	40.60	+0.16 0.00	35.00	+0.16 0.00	5.30	7.00	4534500
35.00	-0.03 -0.09	43.60	+0.16 0.00	38.00	+0.16 0.00	5.30	7.00	4531000
36.00	-0.03 -0.09	44.60	+0.16 0.00	39.00	+0.16 0.00	5.30	7.00	4580200
38.00	-0.03 -0.09	46.60	+0.16 0.00	41.00	+0.16 0.00	5.30	7.00	4788300
40.00	-0.03 -0.09	48.60	+0.16 0.00	43.00	+0.16 0.00	5.30	7.00	4531100
40.00	-0.03 -0.09	50.30	+0.19 0.00	43.00	+0.16 0.00	6.35	8.00	4866900



## PART NUMBER RANGE

METRIC								
$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL H11	$\varnothing D_2$	TOL H11	$L_1$ +0.20-0	$L_2$	PART No.
42.00	-0.03 -0.09	50.60	+0.19 0.00	45.00	+0.16 0.00	5.30	7.00	4788400
45.00	-0.03 -0.09	53.60	+0.19 0.00	48.00	+0.16 0.00	5.30	7.00	4533800
45.00	-0.03 -0.09	55.60	+0.19 0.00	48.00	+0.16 0.00	5.30	7.00	4531200
47.00	-0.03 -0.09	55.60	+0.19 0.00	50.00	+0.16 0.00	5.30	7.00	4778100
50.00	-0.03 -0.09	58.60	+0.19 0.00	53.00	+0.19 0.00	5.30	7.00	4533900
50.00	-0.03 -0.09	60.60	+0.19 0.00	53.00	+0.19 0.00	5.30	7.00	4531300
55.00	-0.03 -0.10	63.60	+0.19 0.00	58.00	+0.19 0.00	5.30	7.00	4534000
55.00	-0.03 -0.10	65.60	+0.19 0.00	58.00	+0.19 0.00	5.30	7.00	4531400
56.00	-0.03 -0.10	64.60	+0.19 0.00	59.00	+0.19 0.00	5.30	7.00	4566000
56.00	-0.03 -0.10	66.60	+0.19 0.00	59.00	+0.19 0.00	5.30	7.00	4704000
60.00	-0.03 -0.10	68.60	+0.19 0.00	63.00	+0.19 0.00	5.30	7.00	4534100
60.00	-0.03 -0.10	70.60	+0.19 0.00	63.00	+0.19 0.00	5.30	7.00	4531500
63.00	-0.03 -0.10	73.60	+0.19 0.00	66.00	+0.19 0.00	5.30	7.00	4824400
70.00	-0.03 -0.10	78.60	+0.19 0.00	73.00	+0.19 0.00	5.30	7.00	4534200
70.00	-0.03 -0.10	80.60	+0.22 0.00	73.00	+0.19 0.00	5.30	7.00	4531600
75.00	-0.03 -0.10	87.20	+0.22 0.00	81.00	+0.22 0.00	7.10	12.00	4903800
80.00	-0.03 -0.10	88.60	+0.22 0.00	83.00	+0.22 0.00	5.30	7.00	4534300





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$\varnothing d_1$	TOL f9	$\varnothing D_1$	TOL H11	$\varnothing D_2$	TOL H11	$L_1$ +0.20-0	$L_2$	PART No.
80.00	-0.03 -0.10	92.20	+0.22 0.00	86.00	+0.22 0.00	7.10	12.00	4531700
85.00	-0.04 -0.12	93.60	+0.22 0.00	88.00	+0.22 0.00	5.30	7.00	4534400
85.00	-0.04 -0.12	97.20	+0.22 0.00	91.00	+0.22 0.00	7.10	12.00	4531800
90.00	-0.04 -0.12	102.20	+0.22 0.00	96.00	+0.22 0.00	7.10	12.00	4531900
95.00	-0.04 -0.12	107.20	+0.22 0.00	101.00	+0.22 0.00	7.10	12.00	4903900
100.00	-0.04 -0.12	112.20	+0.22 0.00	106.00	+0.22 0.00	7.10	12.00	4532000
110.00	-0.04 -0.12	122.20	+0.25 0.00	116.00	+0.22 0.00	7.10	12.00	4538200
115.00	-0.04 -0.12	127.20	+0.25 0.00	121.00	+0.25 0.00	7.10	12.00	4904000
135.00	-0.04 -0.14	147.20	+0.25 0.00	141.00	+0.25 0.00	7.10	12.00	4538100
155.00	-0.04 -0.14	169.20	+0.25 0.00	162.00	+0.25 0.00	7.10	12.00	4904100
175.00	-0.04 -0.14	189.20	+0.29 0.00	182.00	+0.29 0.00	7.10	12.00	4904200