Hallite

Technical Details

Metric

708

Operating Conditions

Temperature Range	-40°C to+100°C
Maximum Speed	5.0m/sec

Typical Physical Properties

Specific Gravity	1.42
Tensile Strength	(Temp 23°C) 57 MN/m²
Coefficient of Dynamic Friction	Dry Lubricated
(steel surface，0.2 µm Ra/ 8 µin CLA)	0.22 0.05

Surface Roughness

	µmRa	µmRt
Dynamic Sealing Face Ød$_1$	0.4	4 max
Static Sealing Face ØD$_1$ L$_1$	3.2 max	16 max

Bearing Tolerance

L$_1$	S
-0.1 to-0.6	-0.02 to-0.1

Bearing Gap Installed – W

Ød$_1$ / ØD$_1$	W
≤ 50	3.00 - 1.50
≤ 120	5.00 - 3.50
≤ 550	7.00 - 5.50

Housing Details & Tolerances

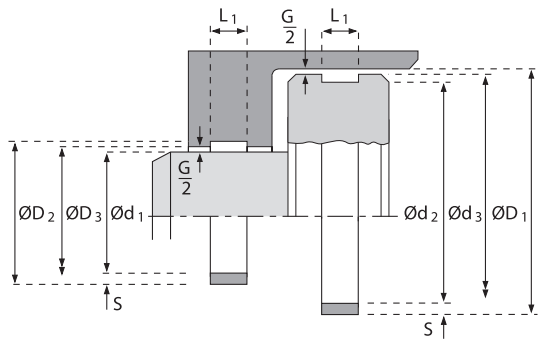
Rod	Ød$_1$		f9
	ØD$_2$ = Ød$_1$ + 2S	≤Ø80	H10
		> Ø80	H9
	ØD$_3$ = Ød$_1$ + G	G min / max	
	L$_1$	+ 0.2 -0 mm	
Piston	ØD$_1$		H11
	Ød$_2$=ØD$_1$-2S		f9
	Ød$_3$ = ØD$_1$- G	G min / max	
	L$_1$	+ 0.2 -0 mm	

Design

Hallite 708 bearings are manufactured from advanced proprietary material developed for use in heavy duty cylinder applications, such as mining roof supports and forestry equipment. The material has exceptional load bearing and wear resistant capabilities. The 708 is ideal for extreme applications where fiber filled bearings are not suitable.

For better alignment and lower risk for metal-to-metal contact between moving parts, all Hallite 708 bearings are fully machined to tight tolerance on thickness.

The Hallite 708 is the most advanced bearing for heavy-duty applications. It is simple to install and will extend equipment service life.



Features

- Zero Water Absorption
- High Compressive Strength
- Good Wear Resistant
- Low Friction
- Easy Installation

  Piston (overlap)

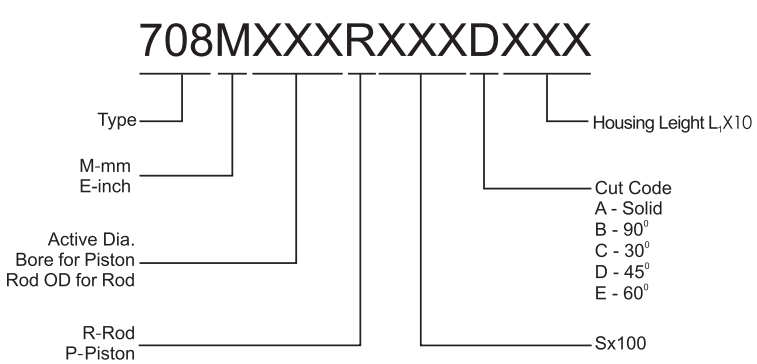
  Rod (open gap)
- For MRO, bearing can be machined to modified groove

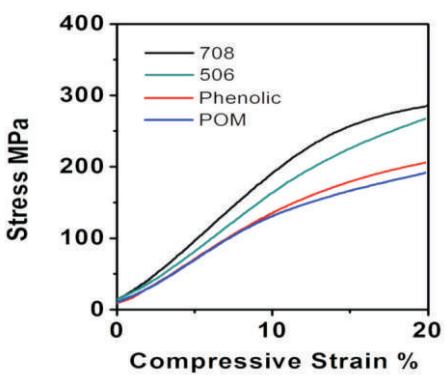
  500mm OD machine up to 500mm

  60mm L1 machine up to 60mm

  3.5mm S machine up to 3.5mm

Part Number Example





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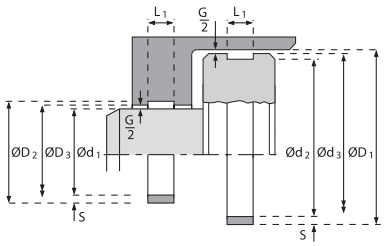

ØD1 Tol H11	Ød2 Tol f9	L1 +0.2 -0	S	PART No.
63	58	5.6	2.5	708M063P250D056
63	58	9.7	2.5	708M063P250D097
80	75	9.7	2.5	708M080P250D097
80	75	15	2.5	708M080P250D150
80	75	20	2.5	708M080P250D200
100	95	15	2.5	708M100P250D150
100	95	20	2.5	708M100P250D200
110	105	15	2.5	708M110P250D150
110	105	20	2.5	708M110P250D200
125	120	20	2.5	708M125P250D200
125	121	22	2	708M125P200D220
140	134	12.8	3	708M140P300D128
140	135	20	2.5	708M140P250D200
140	135	25	2.5	708M140P250D250
160	155	15	2.5	708M160P250D150
160	155	20	2.5	708M160P250D200
160	155	25	2.5	708M160P250D250
165	159	25	3	708M165P300D250
180	174	12.8	3	708M180P300D128
180	175	15	2.5	708M180P250D150
180	175	20	2.5	708M180P250D200
180	175	25	2.5	708M180P250D250
200	195	15	2.5	708M200P250D150
200	195	20	2.5	708M200P250D200
200	195	25	2.5	708M200P250D250
200	195	40	2.5	708M200P250D400
210	205	20	2.5	708M210P250D200

ØD1 Tol H11	Ød2 Tol f9	L1 +0.2 -0	S	PART No.
230	225	15	2.5	708M230P250D150
230	225	20	2.5	708M230P250D200
230	225	25	2.5	708M230P250D250
230	225	30	2.5	708M230P250D300
250	245	20	2.5	708M250P250D200
250	245	25	2.5	708M250P250D250
250	245	30	2.5	708M250P250D300
260	255	30	2.5	708M260P250D300
270	265	30	2.5	708M270P250D300
280	275	20	2.5	708M280P250D200
280	275	25	2.5	708M280P250D250
280	275	30	2.5	708M280P250D300
290	285	30	2.5	708M290P250D300
300	295	25	2.5	708M300P250D250
300	295	30	2.5	708M300P250D300
305	300	30	2.5	708M305P250D300
320	315	20	2.5	708M320P250D200
320	315	25	2.5	708M320P250D250
320	315	30	2.5	708M320P250D300
345	340	30	2.5	708M345P250D300
360	355	30	2.5	708M360P250D300
380	375	30	2.5	708M380P250D300
400	395	30	2.5	708M400P250D300
420	414	30	3	708M420P300D300
420	415	30	2.5	708M420P250D300
450	445	30	2.5	708M450P250D300
500	495	30	2.5	708M500P250D300