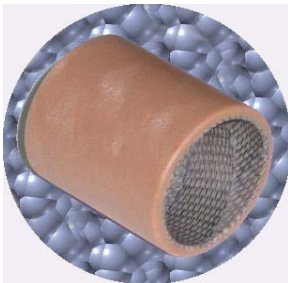
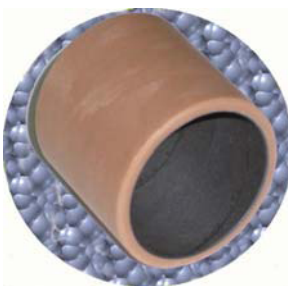


Self-lubricating, High-load carrying Mostuf Composite Bearing is a sliding bearing which can exert excellent working property in non-lubricated condition. According to the type of bearing layer, Mostuf composite bearings are classified to Mostuf T Grade and Mostuf P Grade.



MOSTUF T Composites

The bearing layer of Mostuf T bearing consists of braided PTFE/high-tension synthetic fiber liner. Backing layer consists of fiber glass impregnated into epoxy resin for high temperature. Mostuf T bearings are re-designed for the applications at slow speed & under heavy load.



MOSTUF P Composites

The bearing layer of Mostuf P bearing consists of filled PTFE Tape. Backing layer has the same structure as T bearing. Mostuf P bearing has good embeddability towards foreign substance and is suitable for a shaft with low hardness since its bearing layer is softer than Mostuf T bearing



Characteristics of Mostuf Composite Bearing Materials.

Properties	Units	MOSTUF- T	MOPTUF- P
Maximum Pressure(static)	MPa	240	140
	psi	34,300	20,000
Maximum Pressure(dynamic)	MPa	140	35
	psi	20,000	5,000
Maximum Velocity	m/sec	0.2	2.5
	ft.min	40	500
Maximum PV Factor(continuous)	MPa x m/sec	1.11	1.2
	psi x ft/min	31,700	34,200
Operating Temperature	?	-100/+165	-100/+180
	?	-212/+329	-212/+356
Shaft Hardness (minimum, Rockwell scale)		R c 35	R B 25
Shaft Roughness($\mu\text{m Ra}$)		$0.4 \leq$	$0.4 \leq$
Coefficient of Friction (dry)		0.03~0.12	0.03~0.08
Thickness Swell (full immersion in water)	%	0.15	0.15
Linear Coefficient of Thermal Expansion(20~150?)	cm/cm/?	13×10^{-6}	13×10^{-6}
	in/in/?	7×10^{-6}	7×10^{-6}
Ability to carry alternating loads		Very good	Very good
Ability to accommodate linear loads		Good (under light and low speed)	Good
Stick-slip Effect		Negligible	Negligible
Lubrication		Not require	Not required
Bearing Layer Thickness	mm	0.5~0.8	0.30~0.40
Machining of Bearing Layer		can not be machined	can be machined



Comparison Table between Mostuf T And GarMax

Properties	Units	MOSTUF- T	GarMax
Maximum Pressure(static)	MPa	240	210
	psi	34,300	
Maximum Pressure(dynamic)	MPa	140	140
	psi	20,000	20,000
Maximum Velocity	m/sec	0.2	0.13
	ft.min	40	
Maximum PV Factor(continuous)	MPa x m/sec	1.11	1.05
	psi x ft/min	31,700	
Operating Temperature	?	-100/+165	-195/+160
	?	-212/+329	
Shaft Hardness (minimum, Rockwell scale)		R c 35	R c 35
Shaft Roughness($\mu\text{m Ra}$)		$0.4 \leq$	0.2 – 0.8
Coefficient of Friction (dry)		0.03 ~ 0.12	0.05 ~ 0.30

