

TRIBO/COMP Spherical Bearing

	RING	BALL	RACE
MATERIAL	AMS 5643 (17-4PH)	AMS 5630 (440C)	TRIBO/COMP
HARDNESS	28RC	55RC	

BEARING NUMBER	B BORE DIA +.0000 -.0005	D OUTSIDE DIA +.0000 -.0005	W BALL WIDTH +.000 -.002	H RACE WIDTH +.005 -.005	O SHOULDER DIA MIN	BALL DIA REF	RADIAL DYNAMIC LOAD RATINGS (LBS)	Q° APPROX MISALIGNMENT	STATIC LIMIT LOAD		APPROX WEIGHT (LBS)	NO LOAD BREAK AWAY TORQUE (IN-LBS)
									RADIAL (LBS)	AXIAL (LBS)		
-12	.7500	1.5625	1.280	.620	.970	1.375	22,800	20°	47,000	10,400	0.31	0-15

PHYSICAL PROPERTIES	PMFC (Carbon)	IMFC (Carbon)	IMFK (Non-Carbon)
Compressive Strength psi	35,000	35,000	30,000
Tensile Strength psi	24,000	24,000	20,000
Tensile Modulus psi x 10 ⁽⁶⁾	1.8		
Punch Shear psi	15,000	15,000	12,000
Coefficient of Thermal Expansion Longitudinal μ in/in/°F Transverse μ in/in/°F	8	6.5 2.5	
Wear Rate in/Hr. At PV = 1,600,000 At PV = 300,000	1.7x10 ⁻⁴ @ RT 1.7x10 ⁻⁵ @ RT	1.4x10 ⁻⁴ @ RT 2.8x10 ⁻⁵ @ RT	2.8x10 ⁻⁴ @ RT 2.5x10 ⁻⁵ @ RT