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MC3000® (Weapons Grade Solvent-Free Lubricant Protectant Semi-fluid) ASTM DATA

TEST CODE	DESCRIPTION	TYPICAL RESULTS
ASTM D-217	Unworked Penetration	1600 cst
ASTM 3233A	Falex (Load Carrying Capacity)	2100 min.
ASTM D-942	Bomb Oxidation, 100°C @ 500 Hrs.	+1 PSI
ASTM D-2596	Load Wear Index Last Non-Seizure Load (Scar) Last Seizure Load (Scar) Weld Load	105 60 KG.-0.38 MM 500 KG.-1.61 MM 620 KG.
ASTM D 4172B	4 Ball Wear With Coefficient of Friction Wear Scar	0.44 MM
ASTM D-1478	Low Temperature Torque @ -54°C (-85°F) Starting Torque	1200 GM-CM
ASTM D-130	Copper Corrosion 24 Hrs. @ 100°C. Copper Corrosion 168 Hrs. @ 100°C	1A, SHINY 1A
ASTM D-972	Evaporation @ 100° C, 22 Hrs.	0.66%
FTM-4001	Salt Fog Exposure (5% Salt Fog) @ 250 Hours	PASS, NO RUST, NO CORROSION
FTM-335	Navy Gear Wear Test 10 Lb. Load At 3000 Cycle, Weight Loss of Brass Gear	0.3 mg/1000 cycles
ASTM D-3233	Falex Pin And V Block 4,500 Lb. Gauge, 120°F pre-heat	
	Results: Load, Lbs.	Starting Torque Final Torque
	300 lbs. at 1 min	10 lb-in 10 lb-in
	500 lbs. at 1 min	10 lb-in 10 lb-in
	750 lbs. at 1 min	11 lb-in 17 lb-in
	1000 lbs. at 1 min	21 lb-in 24 lb-in
	1250 lbs. at 1 min	28 lb-in 28 lb-in
	1500 lbs. at 1 min	33 lb-in 34 lb-in
	1750 lbs. at 1 min	38 lb-in 38 lb-in
	2000 lbs. at 1 min	48 lb-in 43 lb-in
	2250 lbs. at 1 min	48 lb-in 48 lb-in
	2500 lbs. at 1 min	50 lb-in 50 lb-in
	2700 lbs. at 1 min	51 lb-in 52 lb-in
VISCOSITY RANGE: CPS – 600 to 650, @ #4 spindle, @ 100 RPM		
Note: These Are Nominal Property Values And Typical Test Results For This Material		