Product Data

Castrol Braycote 1632

Perfluoroether Grease, Low Volatility

Description

Castrol Braycote 1632 is a smooth, white-translucent, NLGI Grade 2 grease, based on a low volatile perfluoroether base oil and thickened with tetrafluoroethylene gelling agent. Castrol Fluoroclean™ X100 and Castrol Fluoroclean™ HE can be used to remove this lubricant. Refer to the data sheets for information regarding these products.

Application

Braycote 1632 is designed for use in static and dynamic lubrication of ball and roller bearings, gears, actuator and lead screw drive assemblies. This product can also be used as a thread and elastomer assembly lubricant. Braycote 1632 is compatible with both concentrated acids and bases. Perfluorinated greases, in general, exhibit excellent shelf lives due to their intrinsic inertness.

Typical Characteristics

TEST (ASTM)	DESCRIPTION	RESULT
D 1403	Penetration @ 25°C (77°F), mm^{-1} Unworked Worked, 60 strokes	 285 284
D 2595	Evaporation Loss, % wt 22 hrs @ 204°C (400°F)	 1
FTM 321	Oil Separation, % wt 30 hrs @ 149°C (300°F)	 7
D 2265	Dropping Point, °C (°F)	185 (365)
FTM 5309	Copper Strip Corrosion, 24 hrs @ 99°C (210°F)	1b
D 2266	Four-Ball Wear-Test, AWSD, mm 1200 rpm, 40 kgf, 1 hr, 75°C (167°F)	 0.92
D 2596	Four-Ball Extreme Pressure Weld Load, kg AWSD, mm Weld Point, kg	400 1.6 500
D 1478	Low Temperature Torque, 8/cm @ -29°C (-20°F) Starting Running, 1 hour @ -34°C (-30°F) Starting Running, 1 hour @ -40°C (-40°F) Starting Running, 1 hour	 1840 460 3500 690 16,040 7198
Base Oil Characteristics		
D 445	Kinematic Viscosity @ 20°C, cSt	450
Knudsen	Vapor Pressure, torr @ 20°C (68°F) @ 100°C (212°F)	 4×10^{-12} $<8 \times 10^{-7}$

Additional Information

Temperature Range

-40ºC to above 232ºC (-40ºF to above 450ºF)

Limitations

Braycote 1632 is compatible, under normal operating conditions, with conventional metals, plastics, and elastomers. It may be adversely affected by Lewis Acids, such as AlCl3, at elevated temperatures. Rubbing surfaces of aluminum, magnesium, or titanium alloys under certain conditions may react with Braycote 1632. Such systems should be thoroughly evaluated. Surfaces must be well cleaned of organic rust inhibitors prior to grease application to insure proper lubrication.

Packaging

Braycote 1632 is available in 2 oz (AVDP) syringes and 1 pound jars.

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