Product Data

Castrol Braycote 1728

Grease, Wide Temperature
Oxidizer Compatible, Chemically Inert

Description

Castrol Braycote 1728 is a smooth, buttery, translucent NLGI #2 grease. It is based upon a low molecular weight perfluorinated polyether oil and a tetrafluoroethylene gelling agent. Braycote 1728 is nonflammable, chemically, chemically inert to strong acids and alkalies, and is oxidizer compatible. Castrol Fluoroclean™ X100 and Castrol Fluoroclean™ HE can be used to remove this lubricant. Refer to the data sheets for Fluoroclean™ X100 and Fluoroclean™ HE for information regarding these products.

Application

Braycote 1728 is recommended for those light duty applications in which lubricant compatibility with aggressive chemicals and oxidants in direct or indirect contact is of primary concern. Braycote 1728 is stable when exposed to both concentrated acids and bases, and oxygen. 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	 281 283
D 2265	Dropping Point, °C (°F)	174 (345)
D 2266	Four-Ball Wear-Test, AWSD, mm 1200 rpm, 40 kgf, 1 hr, 75°C (167°F)	 0.79
D 2596	Four-Ball EP Weld Point, kgf	800
FTM 5039	Copper Strip Corrosion 24 hrs @ 99°C (210°F)	 1a
FTM 321	Oil Separation, % wt 22 hrs @ 149°C (300°F)	 4.53
D 2595	Evaporation Loss, % wt 22 hrs @ 204°C (400°F)	 15.87
D 1478	Low Temperature Torque, g.cm -40°C (-40°F) Starting Running, 10 minutes Running, 1 hr	 4518 1755 1430
D 2512	LOX Impact Sensitivity	Pass
Base Oil Properties:		
Knudsen	Vapor Pressure, torr @ 20°C (68°F) @ 100°C (211°F)	 1×10^{-4} 1×10^{-1}
D 287	Specific Gravity @ 16/16°C (60/60°F)	1.9073
D 97	Pour Point, °C (°F)	-42 (-45)
D 445	Kinematic Viscosity, cSt @ 100°C (212°F) @ 40°C (104°F)	 9.46 67.73
D 2270	Viscosity Index	119

Additional Information

Temperature Range

-40º F to 350º F (-40º C to 177º C)

Limitations

Braycote 1728 is compatible, under normal operating conditions with conventional metals, plastics, and elastomers. Braycote 1728 may be adversely affected by Lewis Acids such as aluminum chloride, at elevated temperatures. Newly exposed rubbing surfaces of aluminum, magnesium, or titanium may react with Braycote 1728 under certain conditions. Such systems should be thoroughly evaluated. Surfaces must be well cleaned of organic rust inhibitors prior to grease application to insure lubrication.

Packaging

Braycote 1728 is available 15 pound pails and 1.75 lb cartridges.

Castrol Limited, Pipers Way, Swindon, Wiltshire SN3 1RE, UK
www.castrol.com/industrial
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