



Braycote 806 RP

Rust Inhibited Grease, Aircraft and Instrument Fuel and Oxidizer Resistant

Description

Castrol Braycote™ 806 RP is a smooth, buttery, off-white NLGI #2 grease based on a perfluoroether base oil. It is thermally stable, nonflammable, and chemically inert to commonly used fuels, solvents and oxidizers. This product is based upon a QPL listed MIL-PRF-27617 grease and contains an additional rust inhibitor additive for those applications requiring ferrous metal protection. Castrol Fluoroclean™ X100 or Castrol Fluoroclean™ HE can be used to remove this lubricant. Refer to the data sheets for information regarding these products.

Application

Braycote 806 RP is designed for static and dynamic lubrication of taper plug valves, gaskets and bearings in fuel systems of aircraft and ground support equipment. It is also suitable for use in the presence of oxygen (LOX/GOX) as a lubricant for valves, threads, and bearings. Perfluorinated greases, such as Braycote 806 RP, are chemically inert and exhibit excellent shelf lives due to their inertness.

Temperature Range: -30°C to above 204°C (-22°F to above 400°F).

Typical Characteristics

Name	Method	Units	Braycote 806 RP
Unworked Penetration	ASTM D217 / IP 50	0.1 mm	277
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	278
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1b
Evaporation Loss (22hrs @ 204°C / 400°F)	ASTM D2595	% wt	1.08
Oil Separation (30 hrs @ 100°C / 212°F)	ASTM D6184 / FTM 321.2	% wt	9.52
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.55
Resistance to Wash-out by Fuel	FTM 5414	Solubility in fuel (%wt)	6.5
Resistance to Wash-out by Distilled Water	FTM 5415	Pass	Pass
Resistance to Wash-out by Distilled Water / Ethanol	FTM 5415	Pass	Pass
Oxidation Stability - Rotating Pressure Vessel test	ASTM D942 / DIN 51808	Pass	Pass
LOX Impact Sensitivity (1100mm, 20drops)	-	Pass	Pass
Rust Test (distilled water)	ASTM D1743	Pass	Pass
Specific Gravity @ 20°C / 68°F	ISO 3675 / ASTM D1298	-	1.91
Base Oil Viscosity @ 99°C / 210°F	ISO 3104 / ASTM D445	mm ² /s	11.6
Base Oil Viscosity @ 38°C / 100°F	ISO 3104 / ASTM D445	mm ² /s	97
Base Oil Viscosity @ 20°C / 68°F	ISO 3104 / ASTM D445	mm ² /s	490
Viscosity Index	ISO 2909 / ASTM D2270	-	117
Pour Point	ISO 3016 / ASTM D97	°C/°F	-30 / -22
Knudsen Vapour Pressure	-	Torr	<9 x 10 ⁻⁷
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Additional Information

Compatibility

Braycote 806RP is compatible with all commonly utilized metals, plastics and elastomers. This product may be adversely affected by Lewis Acids catalysts such as aluminum chloride, at elevated temperatures. Newly exposed rubbing surfaces of aluminum, magnesium or titanium alloys under certain conditions may react with Braycote 806RP. Such systems should be thoroughly evaluated. Surfaces must be well cleaned of organic rust inhibitors prior to grease application to ensure proper lubrication.

Packaging

Braycote 806RP is available in 2 ounce (AVDP) disposable plastic syringes.

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