



## Product Data

### Castrol Braycote® 804

Grease, Aircraft and Instrument  
Fuel and Oxidizer Resistant

#### Description

Castrol Braycote 804 is a smooth, buttery, translucent white NLGI #1 grease, based on a perfluoropolyether base oil. It is thermally stable, nonflammable, chemically inert to commonly used fuels, solvents, corrosive chemicals and oxidizers. 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 804 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) and other highly oxidative materials as a lubricant for valves, threads, and bearings in aerospace vehicles and supporting equipment. Perfluorinated greases, in general, exhibit excellent shelf lives due to their intrinsic inertness.

#### Characteristics

TEST (ASTM)	DESCRIPTION	RESULT
D 1403	Penetration @ 25°C (77°F), mm <sup>-1</sup> Unworked Worked, 60 strokes	322 323
FTM 5309	Copper Strip Corrosion 24 hrs @ 100°C (212°F)	1b
D 2595	Evaporation Loss, % wt 22 hrs @ 149°C (300°F)	10.0
FTM 5414	Resistance to Fuel Solubility in Fuel, % wt	Pass 0.00
FTM 5415	Resistance to Aqueous Solutions Distilled Water Distilled Water/Alcohol	Pass Pass
D 942	Film Stability and Corrosion Steel, 7 days, 100°C (212°F)	Pass
D 2512	LOX Impact Sensitivity 20 drops, 1100 mm	Pass
D 2266	Four-Ball Wear-Test, AWSD, mm 1200 rpm, 40 kgf, 1 hr, 75°C (167°F)	0.28

#### Base Oil Information:

Knudsen	Vapor Pressure, torr @ 20°C (68°F) @ 100°C (212°F)	1 x 10 <sup>-5</sup> 1 x 10 <sup>-3</sup>
D 445	Kinematic Viscosity, cSt @20°C (68°F) @40°C (104°F)	55 24
D 2270	Viscosity Index	65
D 97	Pour Point, °C (°F)	-45 (-49)

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. Castrol will not accept liability if the product is used other than in the manner or with the precautions or for the purpose(s) specified. Before using the product other than directed, please contact Castrol for consultation.

## **Additional Information**

### **Temperature Range**

-54°C to 149°C (-65°F to 300°F).

### **Compatibility**

Braycote 804 is compatible with all commonly used plastic, elastomer and metallic materials of construction. It may be adversely affected by Lewis Acids such as aluminum chloride, at elevated temperatures. Rubbing surfaces of aluminum, magnesium or titanium alloys may react with **Braycote 804** under certain conditions. 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 804 is available in 2 ounce (AVDP) disposable plastic syringes, 1 pound jars, 30 cc fuel kits and 35 pound pails.

### **Specification**

Braycote 804 meets the requirements of and is qualified to MIL-PRF-27617F, Type I.

Castrol Braycote 804  
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All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Ltd products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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