

## Castrol Braycote 1729

Grease, Wide Temperature  
Oxidizer Compatible, Chemically Inert

### Description

Castrol Braycote 1729 is a smooth, translucent NLGI #3 grease. It is based upon a low molecular weight perfluorinated polyether oil and a tetrafluoroethylene gelling agent. Braycote 1729 is nonflammable, chemically inert to strong acids and alkalis, and is oxidizer compatible. 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 1729 is recommended for those applications in which lubricant compatibility with aggressive chemicals and oxidants in direct or indirect contact is of primary concern. Braycote 1729 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 <sup>-1</sup> Unworked	238
	Worked, 60 strokes	241
D 2265	Dropping Point, °C (°F)	178 (352)
D 2266	Four-Ball Wear-Test, AWSD, mm 1200 rpm, 40 kgf, 1 hr, 75°C (167°F)	0.95
D 2596	Four-Ball EP Weld Point, kgf	800+ No Weld
FTM 5039	Copper Strip Corrosion 24 hrs @ 99°C (210°F)	1b
FTM 321	Oil Separation, % wt 22 hrs @ 149°C (300°F)	2.59
D 2595	Evaporation Loss, % wt 22 hrs @ 204°C (400°F)	16.59
D 2512	LOX Impact Sensitivity 20 drops, 1100 mm	Pass
Base Oil Properties		
Knudsen	Vapor Pressure, torr @ 20°C (68°F)	1 x 10 <sup>-4</sup>
	@ 100°C (211°F)	1 x 10 <sup>-1</sup>
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)	9.46
	@ 40°C (104°F)	67.73
D 2270	Viscosity Index	119

## Additional Information

### Temperature Range

-40°F to 350°F (-40°C to 177°C)

### Limitations

Braycote 1729 is compatible, under normal operating conditions with conventional metals, plastics, and elastomers. Braycote 1729 may be adversely affected by Lewis Acids such as aluminum chloride, at elevated temperatures. Rubbing surfaces of aluminum, magnesium, or titanium may react with Braycote 1729 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 1729 is available in 1.75 pound cartridges.

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