Product Data

Braycote 1729

Grease, Wide Temperature

Description

Castrol Braycote™ 1729 is a smooth, translucent NLGI #3 grease. It is based upon a low molecular weight perfluourinated polyether oil and a tetrafluoroethylene gelling agent. Braycote 1729 is nonflammable, 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 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

Name	Method	Units	Braycote 1729
Unworked Penetration	ASTM D217 / IP 50	0.1 mm	238
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	241
Dropping point	ASTM D2265	°C/°F	178/352
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.95
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	800+
Copper Corrosion (24 hrs,100°C / 212°F)	ASTM D4048	Rating	1b
Oil Separation (22 hrs @ 149°C / 300°F)	ASTM D6184 / FTM 321.2	% wt	2.59
Evaporation Loss (22hrs @ 204°C / 400°F)	ASTM D2595	% wt	16.59
LOX Impact Sensitivity (1100 mm, 20 drops)	-	Pass	Pass
Knudsen Vapour Pressure @ 20°C / 68°F	-	Torr	1×10^{-4}
Knudsen Vapour Pressure @ 100°C / 212°F	-	Torr	1×10^{-1}
Specific Gravity @ 15°C / 59°F	ISO 3675 / ASTM D1298	-	1.9073
Pour Point	ISO 3016 / ASTM D97	°C/°F	-42/-45
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm^2/s	9.46
Base Oil Viscosity @ 100°C / 212°F	ISO 3104 / ASTM D445	mm^2/s	67.73
Viscosity Index	ISO 2909 / ASTM D2270	-	119

Additional Information

Temperature Range
-40ºF to 350ºF (-40ºC to 177ºC)

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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