



Braycote 1632

Perfluoroether Grease, Low Volatility

Description

Castrol Braycote™ 1632 is a smooth, white-translucent, NLGI Grade 2 grease, based on a low volatile perfluoroether base oil and thickened with tetrafluoroethylene gelling agent. 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 1632 is designed for use in static and dynamic lubrication of ball and roller bearings, gears, actuator and lead screw drive assemblies. This product can also be used as a thread and elastomer assembly lubricant. Braycote 1632 is compatible with both concentrated acids and bases. Perfluorinated greases, in general, exhibit excellent shelf lives due to their intrinsic inertness.

Typical Characteristics

Name	Method	Units	Braycote 1632
Unworked Penetration	ASTM D217 / IP 50	0.1 mm	285
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	284
Evaporation Loss (22hrs @ 204°C / 400°F)	ASTM D2595	% wt	1
Oil Separation (30 hrs @ 149°C / 300°F)	ASTM D6184 / FTM 321.2	% wt	7
Dropping point	ASTM D2265	°C/°F	185 / 365
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1b
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.92
Four Ball Weld Load test - Load Wear Index (27°C / 1770 rpm)	ISO 11008 / ASTM D2596	-	400
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	500
Low temperature Torque - starting torque @ -29°C / -20°F	ASTM D1478	N/m	0.180
Low temperature Torque - torque after 60 mins @ -29°C / -20°F	ASTM D1478	N/m	0.045
Low temperature Torque - starting torque @ -34°C / -30°F	ASTM D1478	N/m	0.343
Low temperature Torque - torque after 60 mins @ -34°C / -30°F	ASTM D1478	N/m	0.068
Low temperature Torque - starting torque @ -40°C / -40°F	ASTM D1478	N/m	1.573
Low temperature Torque - torque after 60 mins @ -40°C / -40°F	ASTM D1478	N/m	0.706
Base Oil Viscosity @ 20°C / 68°F	ISO 3104 / ASTM D445	mm ² /s	450
Knudsen Vapour Pressure @ 20°C / 68°F	-	Torr	4x10 ⁻¹²
Knudsen Vapour Pressure @ 100°C / 212°F	-	Torr	<8x10 ⁻⁷

Additional Information

Temperature Range

-40°C to above 232°C (-40°F to above 450°F)

Limitations

Braycote 1632 is compatible, under normal operating conditions, with conventional metals, plastics, and elastomers. It may be adversely affected by Lewis Acids, such as $AlCl_3$, at elevated temperatures. Rubbing surfaces of aluminum, magnesium, or titanium alloys under certain conditions may react with Braycote 1632. 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 1632 is available in 2 oz (AVDP) syringes and 1 pound jars.

Braycote 1632

05 Dec 2012

Castrol, the Castrol logo and related marks are trademarks of Castrol Limited, used under licence.

This data sheet and the information it contains is believed to be accurate as of the date of printing. However, no warranty or representation, express or implied, is made as to its accuracy or completeness. Data provided is based on standard tests under laboratory conditions and is given as a guide only. Users are advised to ensure that they refer to the latest version of this data sheet. It is the responsibility of the user to evaluate and use products safely, to assess suitability for the intended application and to comply with all applicable laws and regulations. Material Safety Data Sheets are available for all our products and should be consulted for appropriate information regarding storage, safe handling, and disposal of the product. No responsibility is taken by either BP plc or its subsidiaries for any damage or injury resulting from abnormal use of the material, from any failure to adhere to recommendations, or from hazards inherent in the nature of the material. All products, services and information supplied are provided under our standard conditions of sale. You should consult our local representative if you require any further information.

Castrol Industrial, Technology Centre , Whitchurch Hill , Pangbourne , Reading , RG8 7QR , United Kingdom

www.castrol.com/industrial