



## Braycote 1728

Grease, Wide Temperature

### Description

Castrol Braycote™ 1728 is a smooth, buttery, translucent NLGI #2 grease. It is based upon a low molecular weight perfluorinated polyether oil and a tetrafluoroethylene gelling agent. Braycote 1728 is nonflammable, chemically, 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 Fluoroclean™ X100 and Fluoroclean™ HE for information regarding these products.

### Application

Braycote 1728 is recommended for those light duty applications in which lubricant compatibility with aggressive chemicals and oxidants in direct or indirect contact is of primary concern. Braycote 1728 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 1728
Unworked Penetration	ASTM D217 / IP 50	0.1 mm	281
Worked Penetration (60 strokes @ 25°C / 77°F)	ISO 2137 / ASTM D217	0.1 mm	283
Dropping Point	ASTM D2265	°C/°F	174 / 345
Four Ball Wear test - Wear Scar Diameter (40 kgf / 75°C / 1200 rpm / 1 hr)	ISO 51350 / ASTM D2266	mm	0.79
Four Ball Weld Load test - Weld Point	ISO 11008 / ASTM D2596	kgf	800
Copper Corrosion (24 hrs, 100°C / 212°F)	ASTM D4048	Rating	1a
Oil Separation (22 hrs @ 149°C / 300°F)	ASTM D6184 / FTM 321.2	% wt	4.53
Evaporation Loss (22hrs @ 204°C / 400°F)	ASTM D2595	% wt	15.87
Low temperature Torque - starting torque	ASTM D1478	N/m	0.443
Low temperature Torque - torque after 10 mins	ASTM D1478	N/m	0.172
Low temperature Torque - torque after 60 mins	ASTM D1478	N/m	0.140
LOX Impact Sensitivity	-	Pass	Pass
Knudsen Vapour Pressure @ 20°C / 68°F	-	Torr	1 x 10 <sup>-4</sup>
Knudsen Vapour Pressure @ 100°C / 212°F	-	Torr	1 x 10 <sup>-1</sup>
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 @ 100°C / 212°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	9.46
Base Oil Viscosity @ 40°C / 104°F	ISO 3104 / ASTM D445	mm <sup>2</sup> /s	67.73
Viscosity Index	ISO 2909 / ASTM D2270	-	119

## **Additional Information**

### **Temperature Range**

-40° F to 350° F (-40° C to 177° C)

### **Limitations**

Braycote 1728 is compatible, under normal operating conditions with conventional metals, plastics, and elastomers. Braycote 1728 may be adversely affected by Lewis Acids such as aluminum chloride, at elevated temperatures. Newly exposed rubbing surfaces of aluminum, magnesium, or titanium may react with Braycote 1728 under certain conditions. Such systems should be thoroughly evaluated. Surfaces must be well cleaned of organic rust inhibitors prior to grease application to insure lubrication.

### **Packaging**

Braycote 1728 is available 15 pound pails and 1.75 lb cartridges.

Braycote 1728

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](http://www.castrol.com/industrial)