



Braycote 602 EF

Grease, Molybdenum Disulfide Compound,

Description

Castrol Braycote 602 EF is a smooth, buttery, grey colored NLGI #2 grease. The base fluid (Castrol Brayco® 815Z) is a stable perfluorinated polyether with exceptional chemical resistance, extremely low volatility, and a wide temperature service range. The gelling agent is a tetrafluoroethylene telomer. This grease contains molybdenum disulfide. This product is nonflammable, does not use any chlorofluorocarbons (CFC's) during product manufacture, and is in general, chemically inert. It is an excellent lubricant, has good shear stability, and low toxicity.

Application

Braycote 602 EF is designed to operate in the presence of fuels, oxidizers, and deep space vacuums. Typical applications include ball and roller bearings, gears, electrical contacts, and as an assembly lubricant for O-rings and elastomers. This grease is highly recommended in applications where temperature extremes and/or low vacuums are routine. Perfluorinated greases, such as this product, exhibit excellent shelf life due to their intrinsic inertness.

Temperature Range -80°C to 204°C (-112°F to 400°F).

Castrol Fluoroclean™ X100 or Castrol Fluoroclean™ HE can be used to remove this lubricant. Refer to the data sheets for these products for more information.

Limitations Braycote 602 EF is compatible with most commonly utilized materials, plastics, and elastomers. It may be adversely affected by Lewis Acid catalysts such as aluminum chloride, at elevated temperatures. Newly exposed rubbing surfaces of aluminum, magnesium or titanium alloys may react with this product 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. This product is not recommended for use in applications under high vacuum with loads exceeding 100,000 psi for extended periods of time.

Typical Characteristics

Name	Method	Units	Braycote 602 EF
Appearance	Visual	-	Dark Grey Smooth Buttery
Penetration 1/4 scale	ASTM D217/ISO 2137	1/10 mm	270 - 295
Dropping Point	ASTM D2265	°C/°F	240/460
Four Ball Wear test - Wear Scar Diameter (40 kgf/75 °C/ 1200 rpm/ 1 hr)	ASTM D2266	mm Scar	1.2
Oil separation 30 h/204 °C/400 °F	FTM 791-321	% wt	11
Evaporation Loss 30 h/204 °C/400 °F	FTM 791-321	% wt	0.1
Four Ball EP Properties	ASTM D2596	N	8000
Four Ball Anti Wear Properties @6000 N	ASTM D2596	mm	1.85
Molybdenum Disulphide	AMS-M-7866	% wt	5
Specific Gravity @ 15°C	ASTM D1298	-	1.85
Viscosity, Kinematic @ 38°C/100F	ASTM D-445	mm ² /s	140
Viscosity, Kinematic @ 99 °C/210F	ASTM D-445	mm ² /s	45
Viscosity Index	ASTM D2270	-	350
Pour Point	ASTM D97	°C/°F	-72/-100

Subject to usual manufacturing tolerances.

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07 Jan 2015

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