



## Product Data

## Castrol Braycote 622

Grease, General Purpose  
Wide Temperature Range

### Description

Castrol Braycote™ 622 is a synthetic hydrocarbon base, non-soap thickened grease. It offers outstanding high and low temperature properties, water resistance, and extreme pressure characteristics making it suitable for applications that exceed the capabilities of the best conventional greases. Braycote 622 has good oxidation and corrosion resistance, a low bleed and evaporation rate, and minimal effect on rubber seals. Its compatibility with mineral oil base greases is an added advantage.

### Temperature Range

Braycote 622 is designed to operate over the temperature range of -54°C to 177°C (-65°F to 350°F).

### Application

Braycote 622 is particularly suited for aircraft applications such as wheel bearings, helicopter rotor bearings, control systems, applications including conveyor bearings, small alternator bearings operating at temperatures near 350°F (177°C), high speed miniature ball bearings, and bearing situations where oscillation, vibration, and fretting create problems.

### Specification

Castrol Braycote® 622 meets all the requirements of, and is qualified under military specification MIL-PRF-81322F, NLGI Grade 2 and DOD-G-24508A, Amendment 4 (NAVY).

## Typical Characteristics

TEST ASTM	DESCRIPTION	RESULT
D 217	Penetration, @ 25°C (77°F), mm <sup>-1</sup> Worked, 60 strokes	281
FTM 313	Worked Stability, Penetration, mm <sup>-1</sup> 100,000 strokes @ 25°C (77°F)	315
D 2265	Dropping Point, °C (°F)	275 (> 500)
FTM 5309	Copper Strip Corrosion, 24 hrs @ 100°C (212°F)	1a
D 2595	Evaporation Loss, % wt 22 hrs @ 176°C (349°F)	4.34
D 2266	Four-Ball Wear-Test, AWSD, mm 1200 rpm, 40 kgf, 1 hr, @ 75°C (167°F)	0.62
D 2596	Four-Ball Extreme Pressure Weld, kgf	45
D 1478	Low-Temperature Torque, N.m @ -54°C (-65°F) Starting Running, 1 hr	0.32 0.05
FTM 3005	Particulate Contamination, per mL 25-74 microns 75 microns or larger	72 None
D 1264	Water Washout @ 38°C, % Loss	>1
F 321	Oil Separation, 30 hours @ 350°F, % wt	>6
D 287	Specific Gravity @ 16/16°C (60/60°F) Pounds per Gallon @ 16°C (60°F)	0.882 7.34

Subject to usual manufacturing tolerances.

Castrol Braycote 622  
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