



Braycote 610

Grease, Automotive and Artillery

Description

Castrol Braycote™ 610 is an advanced lithium-complex thickened, amber-colored multi-purpose NLGI Grade 2 grease. This product is composed primarily of synthetic hydrocarbon base stocks, gelling agents, anti-oxidants and corrosion inhibiting additives.

Application

Braycote 610 is intended for use as a long-life, general-purpose lubricant and to provide surface corrosion protection of all ground vehicles and equipment. It is also an excellent lubricant for automotive and industrial applications where a wide temperature range or where infrequent re-greasing is preferred. This grease may be used in other applications where a NLGI Grade 2 grease with good oxidation and salt water corrosion resistance is desirable.

Typical Physical Characteristics

	Unit	Test Method	Typical Value
Worked Penetration (25°C, 60 str)	mm ⁻¹	ASTM D 217	281
Worked Stability – Percent Change (25°C, 100,000 double strokes)	%	Spec. 4.7.5	33
Dropping Point	°C / °F	ASTM D 2265	264 / 507
Evaporation Loss (22 hrs, 99°C)	%	ASTM D 972	2.5
Oil Separation During Storage (24 hrs, 25°C, 0.25 psi air)	%	ASTM D 1742	1.6
Copper Strip Corrosion (24 hrs, 100°C)	-	ASTM D 4048	1a
Rust Prevention Rating (Salt Water, 48 hrs, 52°C)	-	ASTM D 1743 Mod	Pass 1, 1, 1
Oxidation Stability, Pressure Drop 100 hrs 400 hrs	kPa	ASTM D 942	4 17
Four Ball Wear, Scar Diameter (40 kgf, 1 hr, 75°C, 1200 RPM)	mm	ASTM D 2266	0.43
Four Ball EP Weld Point Load Wear Index	kg -	ASTM D 2596	250 44
Timken OK Load	lb	ASTM D 2509	30

	Unit	Test Method	Typical Value
Low Temperature Torque (54°C)			
Initial	N-m	ASTM D 4693	3.68
Running, 5 minutes			1.69
Life Test, Automotive Wheel Bearing (1000 rpm, 160°C)	hours	ASTM D 3527	160
Roll Stability Test – Penetration change (2hrs, 165 RPM)	%	ASTM D 1831	18
Water Stability Test – Penetration Change (25°C, 10% water, 100,000 strokes)	%	Spec. 4.7.3	19

Subject to usual manufacturing tolerances

Additional Information

Temperature Range Braycote 610 is designed to operate over the temperature range of -54°C to 121°C (-65°F to 250°F). Specification Braycote 610 meets the requirements of and is qualified to MIL-PRF-10924H. NATO Code Number: G-403. Military Symbol: GAA.

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