

Castrol Brayco 855

Lubricating Oil, Weapons, Low Temperature

Description

Castrol Brayco® 855 is a light colored synthetic-based lubricating and preservative oil. Castrol Brayco® 855 is formulated as a weapons preservative and lubricating oil for aircraft and ground-based small weapons to insure efficient firing at low temperature.

Temperature Range

-69°F to 0°F (-56°C to -18°C)

Typical Characteristics

TEST (ASTM)	DESCRIPTION	RESULT
D 287	Gravity, API @ 60°F (16°C)	39.3
Table 3	Specific Gravity @ 16/16°C (60/60°F), gm/ml	0.828
Table 8	Pounds per Gallon	6.90
D 445	Kinematic Viscosity, cSt @ 100°F (37.8°C) @ 68°F (20°C) @ -65°F (-54°C)	6.0 9.8 895
D 92	Flash Point, COC, °F (°C)	310 (154)
D 97	Pour Point, °F (°C)	< -75 (< -59)
D 972	Evaporation Loss, @ 210°F (99°C), 22 hrs, % wt	5.9
D 974	Neutralization Number, mgKOH/gm	0.03
D 91	Precipitation Number, ml	0.01
FTM 5329	Humidity Cabinet Protection 400 hrs, SB Panels	Pass
Spec	Hydrolytic Stability 48 hrs, 200°F (93°C) Copper Strip, Weight Change, mg/cm ² Neutralization Number, Oil, Increase, mgKOH/gm Viscosity Change @ 100°F (38°C), % Neutralization Number, Aqueous Layer, mgKOH/gm Insolubles, %	0.01 0.45 1.0 0.10 0.3
FTM 3603	Rubber Swell, L-Rubber 168 hrs @ 158°F (70°C), %	19
Spec 3.4.2	Oxidation Stability 168 hrs @ 212°F (100°C) Copper Strip, Weight Change, mg/cm ² Steel, Weight Change, mg/cm ² Viscosity @ -65°F (-54°C), cSt Neutralization Number, Increase, mgKOH/gm Neutralization Number, Volatile Component, mgKOH/gm Insoluble Material	0.04 0.03 910 0.10 0.00 None

Additional Information

Do not use this lubricating oil in food-processing or food-handling machinery on surfaces that may contact food. Do not allow the oil to contaminate foodstuffs. This lubricant may soften paint, natural rubbers, plastics, or neoprene with contact.

Packaging

Castrol Brayco® 855 is available in 55 gallon drums, 5 gallon pails and 24/1 quart cases.

Specification

Castrol Brayco® 855 meets the requirements of and is qualified to MIL-PRF-14107D. This specification is also identified by military symbol: LAW, and NATO code: O-157.

Storage

Before use, the lubricating oil may be stored under conditions of covered or uncovered storage at temperatures ranging from -70°F to 120°F (-57°C to 49°C).

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