



Product Data

Castrol Brayco 481 Corrosion Preventive Aircraft Engine

Description

Castrol Brayco™ 481 is an amber to brown colored, low viscosity, concentrate oil with anti-oxidant and corrosion preventative additives. It offers good low and high temperature stability and storage stability.

Applications

Brayco 481 is designed for use in the preservation of reciprocating engines, turbojet engines, and equipment using MIL-PRF-6081D, Grade 1010 lubricant. Brayco 481 provides protection against corrosion.

Shelf Life

Brayco 481 has a maximum recommended shelf life of 6 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

Specifications

Brayco 481 meets the requirements of and is qualified to MIL-C-6529C, Type I. Type I product is a concentrate requiring dilution prior to use. Brayco 481 is to be diluted one part of concentrate to three parts of lubricating oil qualified under specification SAE J1966 (superseded MIL-L-6082) or MIL-PRF-6081D. This fluid is identified by Military Symbol CEN-1 and NATO Code Number C-608.

Typical Characteristics

Test	Method	Units	MIL-C6529C TYPE I REQUIREMENTS	Result
API Gravity	ASTM D287	degrees	23.1 – 25.9	25.3
Density @ 16°C/60°F	Table 8	Lbs/gal	7.55 typical	7.5
Viscosity @38°C/100°F @99°C/210°F	ASTM D445	cSt (SUS)		240 (1112) 19.4 (96)
Copper Strip Corrosion	FTM 5325		2a Maximum*	1b
Flash Point	ASTM D92	°C/°F	204/400 Minimum*	245/473
Precipitation Number	ASTM D91		0.1 Maximum*	0
Pour Point	ASTM D97	°C/°F	-12/10 Maximum*	-12/10
Volatility @221°F, 24hrs	FTM 3480	% wt	3 Maximum*	0.5
Viscosity after Volatility @98.9°C/210°F	ASTM D445 ASTM D 2161	SUS	90 – 110*	98.5
Viscosity Index	ASTM D2270		95 Minimum*	100
Ash Content	ASTM D482	%	0.04 Maximum#	0.041
Hydrobromic Acid Neutralization	Spec 4.5.5	%	Pass*	Pass
Cobalt Chloride Test	Spec 4.5.6	Pass/Fail	Pass*	Pass
Lead Corrosion, 4hrs @121°C/250°F 4hrs @149°C/300°F	FTM 5321 Spec 4.5.7.5	mg/in ²	40 Maximum* 70 Maximum*	-12.65 -22.8
Humidity Cabinet Protection	Spec 4.5.2	Pass/Fail	Pass*	Pass
High-and Low-Temperature Stability	Spec 4.5.1	Pass/Fail	No separation*	Pass
Workmanship	Spec 3.5	Pass/Fail		Pass
Carbon Residue	FTM 5001	%	2.0 Maximum*	0.59

* Blended per MIL-C-6529C requirements for test

Implemented through waiver set by approval authority, USAF.

Subject to usual manufacturing tolerances.

Health, safety and environmental information are provided for this product in the Materials Safety Data Sheet. This gives details of potential hazards, precautions and First Aid measures, together with environmental effects and disposal of used products. User accepts all risks and liabilities if the product is used other than in the manner, with the precautions, or for the purpose(s) specified. Before using the product other than directed, please contact Castrol ILS for consultation.

Castrol Brayco 481
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All reasonable care has been taken to ensure that the information contained in this publication is accurate as of the date of printing. However, such information may, nevertheless, be affected by changes in the blend formulation occurring subsequent to the date of printing. Material Safety Data Sheets are available for all Castrol Ltd products. The MSDS must be consulted for appropriate information regarding storage, safe handling and disposal of a product.

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