



Product Data

Brayco[®] 589

Corrosion Preventive Oil
Gas Turbine Engine, Aircraft Synthetic Base

QC Lubricants

CAGE CODE 9Y364

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QCLubricants.com for [Brayco Micronic 589 Purchase and Information](#)

Description

Brayco[®] 589 is a light amber colored inhibited synthetic ester based gas turbine lubricating and preservative oil. Brayco[®] 589 is formulated for limited use in aircraft gas turbine engines designed to operate on MIL-PRF-7808 oils and provides long term storage and corrosion prevention.

Temperature Range

The recommended operating temperature range for MIL-PRF-7808 type oils are from -54°C to 149°C (-65°F to 300°F).

Uses

Brayco[®] 589 is intended for preservation of turboprop and turbojet engines. This corrosion preventative oil is capable of limited use, not to exceed 25 hours, as an aircraft engine lubricant, and can be used for both preservation and final acceptance runs of aircraft engines requiring MIL-PRF-7808 oils.

Limitations

Since Brayco[®] 589 is a synthetic ester based fluid it may adversely affect certain paints and elastomers. Serious deterioration of rubber parts, coatings, paint, and other organic materials may result from use of this product in systems designed for use with petroleum based fluids. Customers should determine the compatibility of existing components and make any changes as required to accompany use of this fluid.

Shelf Life

Brayco[®] 589 has a maximum recommended shelf life of 9 years from date of manufacture. This shelf life assumes that the product is stored in its original unopened packaging in ambient temperature conditions.

Specification

Brayco[®] 589 meets all the requirements of, and is qualified to MIL-PRF-8188D. This fluid is identified by NATO Code: C-638.

BRAYCO® 589
TYPICAL PROPERTIES

TEST METHOD	DESCRIPTION	MIL-PRF-8188D REQUIREMENTS	RESULT
D 287	API Gravity @ 15.4°C, degrees		15.4
Table 3	Specific Gravity @ 60/60°F (16/16°C)		0.965
Table 8	Pounds per Gallon @ 60°F (16°C)		8.03
D 445	Kinematic Viscosity, cSt @ 212°F (100°C) @ 104°F (40°C) @ -60°F (-51°C) after 35 minutes	3.25 Minimum 11.5 Minimum 17,000 Maximum	3.32 14 11400
D 92	Flash Point, COC, °F (°C)	410 (210) Minimum	440 (226)
D 97	Pour Point, °F (°C)	-75 (-60) Maximum	-80 (-63)
D 664	Total Acid Number, mg KOH/g	0.5 Maximum	0.11
D 4636	Corrosion - Oxidation Stability 48 hrs @ 200°C (392°F) Wt. Change, mg/cm ² Silver Aluminum Magnesium Steel Bronze Titanium Viscosity Change @ 104°F (40°C) Total Acid Number Change, mgKOH/g	 +-0.2 +-0.2 +-0.4 +-0.2 +-0.4 +-0.2 -5 to +25 4.0 Maximum	 -0.02 0.00 0.00 0.00 -0.04 -0.05 5 - 10 0.5
FTM 5305	Corrosion Test @232°C (450°F) Silver, wt change, g/m ² Copper, wt change, g/m ²	 +4.5 Maximum +4.5 Maximum	 0.0 -0.1
FTM 3604	Rubber Swell, "H" Type, %	12 to 35	28.6
D 972	Evaporation Loss, % wt 6.5 hrs @ 401°F (205°C)	30 Maximum	15
Spec 4.4.4	Compatibility	Pass	Pass
D 1748	Protection, Humidity Cabinet	Pass	Pass
Spec 3.6	Workmanship	Pass	Pass
FTM 3213	Foaming, Static Volume, ml Collapse Time, seconds	100 Maximum 60 Maximum	pass pass
FTM 5321	Lead Corrosion 1 hr @ 325°F (163°C), g/m ²	40 Maximum	1.2

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 Air BP for consultation.

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