



Castrol Brayco Micronic 882 NASA

Hydraulic Fluid, Fire Resistant
Synthetic Hydrocarbon Base

Description

Castrol Brayco® Micronic 882 NASA is a red colored synthetic hydrocarbon hydraulic fluid ISO viscosity Grade 15 for aircraft, ordnance, and industrial use. It contains no VI improvers and, unlike conventional hydraulic fluids, is not subject to polymer breakdown under high shear conditions. It can be used as a replacement and make-up oil for MIL-PRF-5606, and it is also compatible with MIL-PRF-6083 in all proportions. Castrol Brayco® Micronic 882 NASA has a high flash and fire point, exceptionally high auto ignition point, and low flame propagation. Its properties also include controlled rubber swell for long seal life, low foaming, excellent anti-wear, and good corrosion and oxidation stability.

Castrol Brayco® Micronic 882 NASA meets additional quality control test requirements, as well as special packaging and sampling requirements.

Application

Castrol Brayco® Micronic 882 NASA is primarily designed as a fire resistant hydraulic fluid for aircraft and missile use, but also has many industrial applications where fire and fluid toxicity are a hazard. Castrol Brayco® Micronic 882 NASA is a direct replacement for MIL-PRF-5606.

Typical Characteristics

TEST METHOD	DESCRIPTION	MIL-PRF-83282D REQUIREMENTS	RESULT
D 1298	API Gravity, degrees	---	35
Table 3	Specific Gravity @ 16/16°C (60/60°F)	Report	0.85
Table 8	Pounds per Gallon @ 16°C (60°F)	---	7.08
D 1298	Specific Gravity Variance	0.008 Maximum	0.007
D 445	Kinematic Viscosity, cSt		
	@ 205°C (400°F)	1.0 Minimum	1.1
	@ 100°C (212°F)	3.45 Minimum	3.56
	@ 40°C (104°F)	14.0 Minimum	14.5
	@ -40°C (-40°F)	2200 Maximum	2120
D 97	Pour Point, °C (°F)	-55 (-67) Maximum	-55 (-67)
D 92	Flash Point, COC, °C (°F)	205 (401) Minimum	224 (435)
D 92	Fire Point, COC, °C (°F)	245 (473) Minimum	260 (500)
D 664	Neutralization Number, mgKOH/g	0.10 Maximum	0.04

TEST METHOD	DESCRIPTION	MIL-PRF-83282D REQUIREMENTS	RESULT
FTM 350	Evaporation Loss, % wt 6.5 hrs @ 205°C (400°F)	20.0 Maximum	7
FTM 3458	Low Temperature Stability 72 hrs @ -40°C (-40°F)	No gelling, clouding, crystallization, solidification, or separation	Pass
D 892	Foam, Sequence I Tendency, ml Stability, ml	65 maximum 0	40 0
D 1744	Water by KFR, ppm	100 Maximum	20
D 5185	Barium Content, ppm	10 Maximum	0
D 4172	Lubricity, AWSD, mm @ 1 kg load @ 10 kg load @ 40 kg load	0.21 Maximum 0.30 Maximum 0.65 Maximum	0.11 0.22 0.46
FTM 3009	Solid Particle Contamination per 100 ml Autocount 5 - 15 Microns 15 - 25 Microns 25- 50 Microns 50- 100 Microns 100 + Microns	10,000 Maximum 1,000 Maximum 150 Maximum 20 Maximum 5 Maximum	2700 160 30 4 0
D4898 (spec) FTM 3009 (spec)	Gravimetric Residue, mg per 100 ml Filtering Time, minutes	0.3 Maximum 15 Maximum	0.1 9

Additional Information

Temperature Range

-40°C to 205°C (-40°F to 401°F)

Packaging

Castrol Brayco® Micronic 882 NASA is specially filtered to micronic specifications. It is available in 55 gallon drums.

Specification

Castrol Brayco® Micronic 882 NASA meets all requirements and is qualified under military specification MIL-PRF-83282D, Amendment 1.

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