

## Castrol Brayco 885

Low Volatility, Aircraft Instrument  
Lubricating Oil

### Description

Castrol Brayco™ 885 is a diester base synthetic oil with additives which impart corrosion protection, minimize galvanic corrosion, inhibit oxidation, and reduce foaming tendencies. It has exceptionally low volatility and good viscosity temperature characteristics.

#### Temperature Range

Brayco 885 is designed to operate over the temperature range of -65°F to 250°F (-54°C to 121°C).

### Application

Brayco 885 is intended for use in aircraft instruments, electronic equipment, or in applications where an oil with a low evaporation rate is required for both high and low temperature operation, and also where oxidation and corrosion resistance are desirable.

Brayco 885 may adversely affect certain paints and elastomers. Products other than those developed for diester base fluids should be carefully tested for compatibility prior to use.

### Typical Characteristics

TEST METHOD	DESCRIPTION	MIL-PRF-60850 REQUIREMENTS	RESULT
D 287	API Gravity @ 15.6°C	Report	21.3
Table 3	Specific Gravity @ 15.6/15.6°C (60/60°F)	Report	0.9345
Table 8	Pounds per Gallon @ 15.6°C (60°F)	Report	7.72
D 1500	Color, ASTM	5 Maximum	<2.0
D 445	Viscosity, cSt @ 54°C (130°F) @ -54°C (-65°F)	8.0 Minimum 12,000 Maximum	9.2 11,530
D 97	Pour Point, °C (°F)	-57 (-70) Maximum	<-57 (<-70)
D 92	Flash Point, COC, °C (°F)	185 (365) Minimum	225 (437)
D 974	Neutralization No., mgKOH/g	Report	0.27
D 91	Precipitation No., mL	0.0 Maximum	0.0
D 972	Evaporation Loss, % wt 22 hrs @ 120°C (248°F)	1.80 Maximum	0.88
FTM 202	Low Temperature Stability 72 hrs @ -54°C (-65°F)	No gelling or separation	Pass
FTM 5308	Corrosion-Oxidation Stability 168 hrs @ 121°C (250°F) Corrosion, Pitting, Etching Wt. change, mg/cm <sup>2</sup> Copper Steel Aluminum Magnesium Cadmium Viscosity Change, 54.5°C (130°F), % Acid No. Change, mgKOH/g Oil Weight Loss, %	None  0.2 Maximum 0.2 Maximum 0.2 Maximum 0.2 Maximum 0.2 Maximum -5 to +5 0.5 Maximum 8.0 Maximum	None  0.15 +0.04 +0.017 +0.007 -0.08 +0.22 0.4 0.4

Subject to usual manufacturing tolerances.

## Additional Information

Brayco 885 is qualified under Specification MIL-PRF-6085D. It is specified as a P-17 preservative under packaging Specification MIL-STD-2073-1.

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Castrol Industrial North America Inc. 150 West Warrenville Road, 605 3E Naperville, IL 60563  
Tel: (877) 641 1600 Fax: (877) 648 9801  
[www.castrol.com/industrial](http://www.castrol.com/industrial)