TECHNICAL DATA SHEET FOR RADCOLUBE® 6085
MIL-PRF-6085F LUBRICATING OIL INSTRUMENT, AIRCRAFT, LOW VOLATILITY

Characteristics	Requirement	Typical Results	Test Method
Viscosity, cSt (mm2/s)			ASTM D445
at 54°C	8 min	9.6	
at -54°C	12,000 max	11,230	
Pour Point	-57°C max	≤ -69	ASTM D97
Flash Point	185°C min	230	ASTM D92
Precipitation Number	0 max	0.00	ASTM D91
Acid Number	Report	0.15	ASTM D974
Corrosion and Oxidation Stability, 168 hours at 121° ± 1°C			ASTM D4636 Procedure 2
Metal specimen weight change, mg/cm^2			
Cadmium-plated steel	0.2 max	0.00	
Copper	0.2 max	0.00 (2e)	
Steel	0.2 max	0.00	
Aluminum	0.2 max	0.01	
Magnesium alloy	0.2 max	0.01	
No pitting, etching, or visible corrosion	Pass	Pass	
Viscosity change at 54.4°C, percent	± 5% max	0.05%	
Acid number change, mg KOH/g	0.5 max	0.01	
No evidence of separation of insoluble materials or gumming of the oil	Pass	None	
Low temperature stability, 72 hours at -54°C	MIL-PRF-6085F Section 3.4.3	Pass	MIL-PRF-6085F Section 4.4.2
Evaporation Loss 22 hours at 120° ± 1°C, percent weight	1.80%, max	0.81%	ASTM D972
Corrosivity	MIL-PRF-6085F Section 3.4.5	Pass	MIL-PRF-6085F Section 4.4.6
Color and Appearance			
ASTM Color	No. 5 max	L1.0	ASTM D1500
Oil shall be clear, transparent and uniform in appearance.	Pass	Pass	MIL-PRF-6085F Section 3.5
Protection of panels for 100 hours	MIL-PRF-6085F Section 3.6	Pass	MIL-PRF-6085F Section 4.4.4
Workmanship	MIL-PRF-6085F Section 3.7	Pass	MIL-PRF-6085F Section 3.7

* Data represents typical laboratory samples and are not guaranteed for all samples

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