



**TECHNICAL DATA SHEET FOR RADCOLUBE® 6081N
MIL-PRF-6081E AMD 1 GRADE 1010N LUBRICATING OIL, JET ENGINE**

Characteristics	Requirement	Result	Test Method
API Gravity at 15.6°C (60°F)	Report	29.8	ASTM D1298
Total Acid Number, mg KOH/g	0.10 max	0.05	ASTM D664
Viscosity at:			
37.8°C (100°F), mm ² /s	10.0 min	10.3	ASTM D445
-40°C (-40°F) at 35 minutes, mm ² /s	3000 max	2408	ASTM D2532
-40°C at 3 hours, mm ² /s	Report	2400	ASTM D2532
Viscosity stability, percent change	2% max	-0.34%	ASTM D2532
Flash Point	132°C (270°F) min	148°C (298°F)	ASTM D92
Pour Point	-57°C (-70°F) max	≤-63°C (-81°F)	ASTM D97
ASTM Color	No. 5.5 max	L0.5	ASTM D1500
Copper Strip Corrosion at 100 ± 1°C (212 ± 2°F)	1 max	1B	ASTM D130
Corrosion and Oxidation Stability at 121°C (250°F)			ASTM D4638 Procedure B
Post Test Oil Properties			
Viscosity change, percent	-5 to +20%	8.4%	
Acid Number change	0.2 max	0.14	
Sludge volume, mL	0.05 mL max	0.00	
Post Test Metal Specimen: Weight change, mg/cm ²			
Copper	± 0.2 max	0.0	
Steel	± 0.2 max	0.0	
Aluminum alloy	± 0.2 max	0.0	
Magnesium alloy	± 0.2 max	0.0	
Cadmium-plated steel	± 0.2 max	0.0	
Trace sediment, mL/200mL of oil	0.005 max	0.000	ASTM D2273
Grade 1010N sediment requirement, mg/L	2.0 max	0.00	FED-STD-791 Method 3010.1
Workmanship	Pass	Pass	MIL-PRF-6081E(1) ¶ 3.4

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