



MIL-PRF-6081E RADCOLUBE® 6081



RADCOLUBE® 6081 LUBRICATING OIL, JET ENGINE

A petroleum-based, jet engine lubricating oil. The 1010 Grade is intended for use in specific models of military jet engines.

Grade: 1010

NATO Code: O-133

Qualification Number: 95B
102B
103B

Qualification Date: 14 July 2014
13 May 2020
13 May 2020

ISO 9001:2015 Certification No: C2024-00254

Shelf Life: 36 Months from DOM

Manufactured: Batavia, IL 60510 | Cage: 6ZS16



NATIONAL STOCK NUMBERS (NSN)	
9150-00-273-2388	Quart
9150-00-273-8807	Gallon
9150-00-231-6676	55 Gallon Drum
9150-00-985-7031	Bulk

5 Gallon Pails Available Upon Request



TECHNICAL DATA SHEET FOR RADCOLUBE® 6081
MIL-PRF-6081E W/AMENDMENT 1 GRADE 1010 LUBRICATING OIL, JET ENGINE

Characteristics	Requirement	Result	Test Method
API Gravity at 15.6°C (60°F)	Report	33.0	ASTM D1298
Total Acid Number, mg KOH/g	0.10 max	0.04	ASTM D664
Viscosity at:			
37.8°C (100°F), mm ² /s	10.0 min	11.0	ASTM D445
-40°C (-40°F) at 35 minutes, mm ² /s	3000 max	2028	ASTM D2532
-40°C at 3 hours, mm ² /s	Report	2020	ASTM D2532
Viscosity stability, percent change	2% max	-0.38%	ASTM D2532
Flash Point	132°C (270°F) min	162°C (324°F) min	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%	4.90%	
Acid Number change	0.2 max	0.12	
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
Workmanship	Pass	Pass	MIL-PRF-6081E(1) ¶ 3.4