








# MIL-PRF 7024F

## MILITARY-SPEC CALIBRATION FLUID

MIL-PRF-7024F is a military performance specification that covers fluids used in the calibration of fuel system components.

### FEATURES

-  Authorized Government Contractor
-  Special Run Stoddard Solvent • High Flash Point Fluid
-  National 3rd Party Quality Conformance Testing & Certificate of Analysis Issuance
-  Guaranteed Inventory & Supply  
"When You Need It, Where You Need It."
-  Custom Quantities Available in Bulk, Mini-Bulk, Drums or Totes

Available in:



Bulk • Drums • Totes

### APPLICATIONS

- Military Equipment
- Defense
- Aerospace
- Aircraft Reciprocating Engines
- Aircraft Gas Turbines
- Ram-Jet Engines

*\*If your application is not listed, contact SPS to find out how we can service your needs.*

### Specification Highlights

	TYPE I	TYPE II	TYPE III
Flash Point, °C (°F), Min	---	38 (100)	79 (175)
Specific Gravity, 15.6°C/15.6°C (60°F/ 60°F)	0.699 ± 0.002	0.770 ± 0.005	0.780 ± 0.005
Viscosity, mm <sup>2</sup> /s at			
0°C (32°F)	0.785 ± 0.01	---	---
25°C (77°F)	---	1.17 ± 0.05	---
37.8°C (100°F)	0.54 ± 0.01	---	2.47 ± 0.10



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1405 Brewerton Rd., Syracuse, NY 13208

V1/2014

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## Chemical and Physical Requirements and Test Methods

REQUIREMENTS	Type I	Type II	Type III	ASTM Method
Specific Gravity, 15.6°C/15.6°C (60°F/60°F)	0.699 ± 0.002	0.770 ± 0.005	0.780 ± 0.005	D1298 D4052
Color, Saybolt, Lighter Than	+25		+25	D156 D6045
Viscosity, mm <sup>2</sup> /s at 0°C (32°F) 25°C (77°F) 37.8°C (100°F)	0.785 ± 0.01  0.54 ± 0.01	 1.17 ± 0.05	  2.47 ± 0.10	  D445
Vapor Pressure at 37.8°C (100°F), kPa (psi) Max	13.8 (2.0)			D323 D5191
Existent Gum, mg/100 mL Max	2.0	5.0		D381 <sup>1</sup>
Potential Gum, mg/100 mL Max	5			D873 <sup>2</sup>
Distillation: Initial BP °C (°F) min Recovered 10% °C (°F) Recovered 50% °C (°F) Recovered 90% °C (°F)		149 (300)	216 (420) Note <sup>3</sup> 221-232 (430-450) Note <sup>3</sup>	  D86
Final Boiling Point °C (°F)		210 (410) Max	232-246 (450-475)	
Recovery, Percent Min		98.5		
Range, 5 to 95% points °C (°F)	1.7 (3) <sup>4</sup>			
Residue, Volume %, Max			1.5	
Loss, Volume %, Max			1.5	
Flash Point, °C (°F), Min		38 (100)	79 (175)	D56
Aromatics, Vol %, Max		20.0		D1319
Benzene, Vol %, Max	0.01	0.01	0.01	D3606
Olefins, Vol %, Max		5.0		D1319
Particulate Matter, mg/L, Max		2.0		D2276 D5452
Mercaptan Sulfur, % Wt, Max or Doctor Test		0.001 Sweet		D3227 D4952
Copper Corrosion, Max	No. 1	No. 1	No. 1	D130
Total Acid Number, mg KOH/g, Max		0.015		D3242
Freezing Point, °C (°F), Max			-54 (-65)	D2386 D5972
Acidity, Distillation Residue, Max			Neutral	D1093
Notes:				
1. Air Jet Method				
2. 5-Hour Aging Period				
3. To Be Reported-Not Limited				
4. Must Include Temperature of 98°C (208°F)				



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