

POLAR GUARD®

Type IV Aircraft Deicing/Anti-icing Fluid
AMS 1428 Certified



BENEFITS

- Certified propylene glycol based Type IV aircraft deicing/anti-icing fluid
- Easy to apply with existing equipment
- Dedicated technical support; experienced with product transitions

PERFORMANCE

- Superior sprayability - lack of foam during application
- Lowest Operational Use Temperature (LOUT) is -10.3°F (-23.5°C)
- Two year product warranty (original sealed container; stored within temperature storage limits)

APPLICATION

- Critical surfaces: 1.0 - 1.5 liters per m² (1.0 - 1.5 mm)

ENVIRONMENT

- Triazole free
- Does not contain nonyl phenol ethoxalate surfactants
- Aquatic Toxicity:

Aquatic Species	Test Duration Hours	LC50 Concentrate Fluid mg/L	Test Method
Pimephales promelas	96	16,150	EPA 40CFR797.1400
Daphnia magna	48	9,250	EPA 40CFR797.1300

- Readily biodegradable
- Classified as non-hazardous

HANDLING

- Avoid contact with skin and eyes
- Avoid breathing mists/vapors when spraying
- Keep in tightly sealed containers, away from direct heat, sunlight, and strong oxidizing agents
- Do not store in extreme temperatures; below -4°F (-20°C) or above 122°F (50°C)
- Contact Cryotech for advice on bulk and/or heated storage

See Reverse Side For Product Specifications
Test Data Available Upon Request
ISO 9001:2008 & 14001:2004 CERTIFIED COMPANY



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PRODUCT SPECIFICATIONS - POLAR GUARD®

COMPOSITION	Contains minimum 48% propylene glycol						
APPEARANCE	Green homogenous fluid						
DENSITY	At 68°F (20°C) = 8.66 lbs/US gallon						
VISCOSITY*	<table border="0"> <tr> <td>Minimum on-wing</td> <td>32,100 cPs</td> </tr> <tr> <td>In Service Limits</td> <td>32,100 - 43,900 cPs</td> </tr> <tr> <td>Production Specifications</td> <td>35,700 - 43,900 cPs</td> </tr> </table> <p>*Brookfield LVT, Spindle No. 31 @ 0.3 rpm @ 68°F (20°C)</p>	Minimum on-wing	32,100 cPs	In Service Limits	32,100 - 43,900 cPs	Production Specifications	35,700 - 43,900 cPs
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In Service Limits	32,100 - 43,900 cPs						
Production Specifications	35,700 - 43,900 cPs						
FLASH POINT	Not lower than 212°F (100°C)						
FREEZING POINT	<p>100/0 = Below -30°F (-34°C)</p> <p>50/50 = 14.5°F (-9.5°C)</p>						
TEMPERATURE STORAGE LIMITS	<p>Minimum -4°F (-20°C)</p> <p>Maximum 122°F (50°C)</p>						
REFRACTIVE INDEX	At 68°F (20°C) = 1.3897 ± 0.0015						
SURFACE TENSION	At 68°F (20°C) = 42.2 dynes/cm						
STORAGE STABILITY	2 years in the original sealed container when stored within temperature storage limits						
TYPICAL pH	At 68°F (20°C) = 7.0 ± 0.5						
SPECIFIC GRAVITY	At 68°F (20°C) = 1.040 ± 0.015						
PACKAGING	<p>55 gallon drums (208 liters) - 4 drum minimum</p> <p>265 gallon tote (1003 liters) - 1 tote minimum</p> <p>Bulk - 5000 gallons minimum</p>						



TO ORDER OR FOR PRODUCT INFORMATION CONTACT:

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