

POLAR GUARD® ADVANCE

Type IV Aircraft Deicing/Anti-icing Fluid

AMS 1428/1 Certified



BENEFITS

- Certified propylene glycol based Type IV aircraft deicing/anti-icing fluid
- Long Hold Over Times in all weather conditions
- Lowest Operational Use Temperature (LOUT) in the Industry
- Low viscosity provides for easier handling and application
- Dedicated technical support; experienced with product transitions

PERFORMANCE

- Superior sprayability - low foaming
- LOUT is -22.9°F (-30.5°C)
- Two year product warranty (original sealed container; stored within temperature storage limits)

APPLICATION

- Critical surfaces: 0.025 - 0.037 gal/ft² (1.0 - 1.5 mm)

ENVIRONMENT

- Triazole free
- Does not contain nonylphenol ethoxylate surfactants
- Aquatic Toxicity

Aquatic Species	Test Duration Hours	LC50 Concentrate Fluid mg/L	Test Method
Pimephales promelas	96	707 mg/L	EPA 40CFR797.1400
Daphnia magna	48	>1,000 mg/L	EPA 40CFR797.1300

- Readily biodegradable
- Classified as non-hazardous

HANDLING

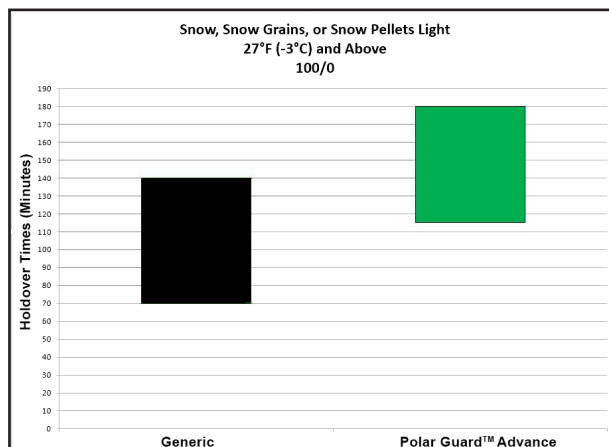
- Avoid contact with skin and eyes
- Avoid breathing mists/vapors when spraying
- Keep in tightly sealed containers, away from direct heat, sunlight, and strong oxidizing agents
- Do not store in extreme temperatures; below -20°F (-30°C) or above 140°F (60°C)
- Contact Cryotech for advice on bulk and/or heated storage

See Reverse Side For Product Specifications
Test Data Available Upon Request
ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY

PRODUCT SPECIFICATIONS

POLAR GUARD[®] ADVANCE

COMPOSITION	Contains minimum 50% propylene glycol						
APPEARANCE	Semi-transparent, green color						
DENSITY	At 68°F (20°C) = 8.66 lbs/US gallon						
VISCOSITY*	<table> <tr> <td>Minimum on-wing</td> <td>4,050 cPs</td> </tr> <tr> <td>In Service Limits</td> <td>4,050 - 16,200 cPs</td> </tr> <tr> <td>Production Specifications</td> <td>8,000 - 16,200 cPs</td> </tr> </table> <p>*Brookfield LVT, Spindle No. 1 @ 0.3 rpm @ 68°F (20°C)</p>	Minimum on-wing	4,050 cPs	In Service Limits	4,050 - 16,200 cPs	Production Specifications	8,000 - 16,200 cPs
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FLASH POINT	Not lower than 212°F (100°C)						
FREEZING POINT	<table> <tr> <td>100/0 = Below -35.7°F (-37.6°C)</td> </tr> <tr> <td>50/50 = 13°F (-10.6°C)</td> </tr> </table>	100/0 = Below -35.7°F (-37.6°C)	50/50 = 13°F (-10.6°C)				
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REFRACTIVE INDEX	At 68°F (20°C) = 1.390 - 1.393						
BRIX	At 68°F (20°C) = 34.6 - 36.6						
STORAGE STABILITY	2 years in the original sealed container when stored within temperature storage limits						
TYPICAL pH	At 68°F (20°C) = 6.9 ± 0.5						
SPECIFIC GRAVITY	At 68°F (20°C) = 1.040 ± 0.015						
PACKAGING	<table> <tr> <td>55 gallon drums (208 liters) - 4 drum minimum</td> </tr> <tr> <td>265 gallon tote (1003 liters) - 1 tote minimum</td> </tr> <tr> <td>Bulk - 5000 gallons minimum</td> </tr> </table>	55 gallon drums (208 liters) - 4 drum minimum	265 gallon tote (1003 liters) - 1 tote minimum	Bulk - 5000 gallons minimum			
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TO ORDER OR FOR PRODUCT INFORMATION CONTACT:

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