

# 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/ft<sup>2</sup> (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

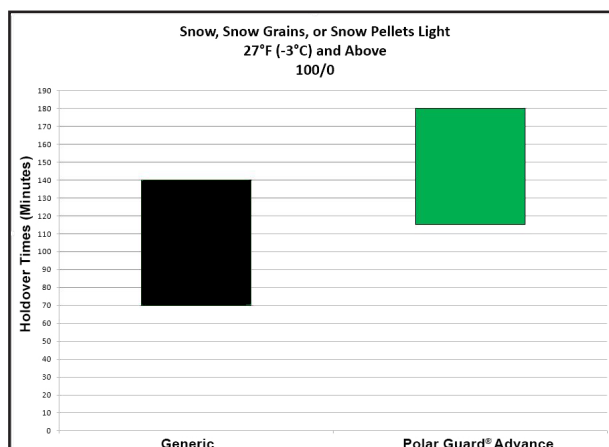
See Reverse Side For Product Specifications  
Test Data Available Upon Request  
ISO 9001:2015 & 14001:2015 CERTIFIED COMPANY



# PRODUCT SPECIFICATIONS

## POLAR GUARD<sup>®</sup> ADVANCE

<b>COMPOSITION</b>	Contains minimum 50% propylene glycol						
<b>APPEARANCE</b>	Semi-transparent, green color						
<b>DENSITY</b>	At 68°F (20°C) = 8.66 lbs/US gallon						
<b>VISCOSITY*</b>	<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
Minimum on-wing	4,050 cPs						
In Service Limits	4,050 - 16,200 cPs						
Production Specifications	8,000 - 16,200 cPs						
<b>FLASH POINT</b>	Not lower than 212°F (100°C)						
<b>FREEZING POINT</b>	<p>100/0 = Below -35.7°F (-37.6°C)</p> <p>50/50 = 13°F (-10.6°C)</p>						
<b>TEMPERATURE STORAGE LIMITS</b>	<p>Minimum -20°F (-30°C)</p> <p>Maximum 140°F (60°C)</p>						
<b>REFRACTIVE INDEX</b>	At 68°F (20°C) = 1.390 - 1.393						
<b>BRIX</b>	At 68°F (20°C) = 34.6 - 36.6						
<b>STORAGE STABILITY</b>	2 years in the original sealed container when stored within temperature storage limits						
<b>TYPICAL pH</b>	At 68°F (20°C) = 6.9 ± 0.5						
<b>SPECIFIC GRAVITY</b>	At 68°F (20°C) = 1.040 ± 0.015						
<b>PACKAGING</b>	<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:

Ph: +1 319.372.6012 or +1 800.346.7237 Fax: +1 319.372.2662

E-mail: [deicers@cryotech.com](mailto:deicers@cryotech.com)

Cryotech Deicing Technology . 6103 Orthoway . Fort Madison, IA . 52627  
[WWW.CRYOTECH.COM](http://WWW.CRYOTECH.COM)



ISO 14001  
EMS 89384



ISO 9001  
FM 39092