

# CRYOTECH POLAR GUARD® XTEND

Type IV Aircraft Deicing/Anti-icing Fluid

AMS 1428/1 Certified



## Why Polar Guard Xtend?

Polar Guard® Xtend is a next generation propylene glycol based AMS1428/1 certified Type IV fluid. Xtend's name reflects its strategic enhancements of longer Hold Over Times, vibrant color and improved environmental profile while retaining the key properties of low viscosity & low foam of Polar Guard® Advance. These characteristics combine for application optimization increasing overall efficiencies.

## BENEFITS

- Longer Holdover Times in key Snow conditions and Freezing Drizzle
- Industry leading times in Light Freezing Rain below 27°F (-3°C) for propylene glycol based fluids
- Dedicated technical support; experienced with product transitions

## PERFORMANCE

- Superior sprayability; low foaming
- Superior sprayability and wetting provide even coverage
- Low viscosity for longer reach
- Low foam for enhanced visual checks
- LOUT is -20°F (-29°C)
- Two year product warranty (original sealed container; stored within temperature storage limits)

## ENVIRONMENT

- Triazole free
- Does not contain nonylphenol ethoxylate surfactants
- 50% improvement in aquatic toxicity on two common species

Aquatic Species	Test Duration Hours	LC50 Concentrate Fluid mg/L	Test Method
Pimephales promelas	96	1,196 mg/L	EPA 40CFR797.1400
Daphnia magna	48	1,050 mg/L	EPA 40CFR797.1300

- Readily biodegradable
- Classified as non-hazardous

## APPLICATION

- Critical surfaces: 0.025 - 0.037 gal/ft<sup>2</sup> (1.0 - 1.5 mm/40-60 mil)
- Vibrant color increases application visibility



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## PRODUCT SPECIFICATIONS

COMPOSITION	APPEARANCE	DENSITY	TEMPERATURE STORAGE LIMITS
Contains minimum 50% propylene glycol	Semi-transparent, green color	At 68°F (20°C) = 8.66 lbs/US gallon	Minimum -20°F (-30°C) Maximum 122°F (50°C)
REFRACTIVE INDEX	FREEZING POINT	FLASH POINT	STORAGE STABILITY
At 68°F (20°C) = 1.390 - 1.393	100/0 = Below -35.7°F (-37.6°C) 50/50 = 13°F (-10.6°C)	Not lower than 212°F (100°C)	2 years in the original sealed container when stored within temperature storage limits
BRIX	TYPICAL pH	SPECIFIC GRAVITY	PACKAGING
At 68°F (20°C) = 34.6 - 36.6	At 68°F (20°C) = 6.2-7.2	At 68°F (20°C) = 1.025 -1.055	55 gallon drums (208 liters) - 4 drum minimum 265 gallon tote (1003 liters) - 1 tote minimum Bulk - 5000 gallons minimum
VISCOSITY*		HANDLING	
Minimum on-wing = 6,350 cPs In Service Limits = 6,350 - 23,200 cPs Production Specifications = 10,000 - 20,000 cPs *Brookfield LVT, Spindle No. 1 @ 0.3 rpm @ 68°F (20°C)		<ul style="list-style-type: none"> <li>Avoid contact with skin and eyes</li> <li>Avoid breathing mists/vapors when spraying</li> <li>Keep in tightly sealed containers, away from direct heat, sunlight, and strong oxidizing agents</li> <li>Do not store in extreme temperatures; below -20°F (-30°C) or above 122°F (50°C)</li> <li>Contact Cryotech for advice on bulk and/or heated storage</li> </ul>	

### TO ORDER OR FOR PRODUCT INFORMATION CONTACT:

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