



EXCEPTIONAL HOLDOVER PERFORMANCE



SPEC: KILFROST ABC-S PLUS

Propylene glycol based SAE Type IV aircraft deicing fluid meeting FAA-approved specification AMS 1428

BENEFITS

- Exhibits long holdover performance in all snow conditions
- Demonstrates exceptional shear stability
- Miscible with ABC-S for smooth transition, contact Cryotech for instructions**
**to use ABC-S Plus fluid specific Holdover Times, do not allow more than 10% ABC-S in any blend of the two fluids
- Easy to apply with existing equipment
- Manufactured in North America by Cryotech Deicing Technology

PERFORMANCE

- Superior sprayability - lack of foam during application
- Long-term fluid stability
- Lowest Operational Use Temperature (LOUT) is -28°C (-18.4°F)
- Fluid dryout and elimination exceed current revision of FAA approved specification AMS 1428

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
- Toxicity:
 - LC₅₀ (freshwater fish) 1,725 mg/L (OECD 203, 96h)
 - LC₅₀ (daphnia) 1,350 mg/L (OECD, 202, Part 1, 48h)
 - EC₁₀ (bacteria) > 1,000 mg/L (DIN 38412, Part 341)
- Ecological: Fully biodegradable - 99% in 14 days (OECD 301E)
- Classified as non-hazardous

HANDLING

- Avoid contact with skin and eyes
- Avoid inhalation of mists/vapors when spraying
- Store in tightly sealed containers, away from direct heat and strong oxidizing agents
- Abstain from using uncoated mild steel tanks
- Contact Cryotech for information on bulk and/or heated storage

SEE REVERSE SIDE FOR PRODUCT SPECIFICATIONS
COMPLETE TECHNICAL BROCHURE AVAILABLE UPON REQUEST



ISO 9001
FM 39092



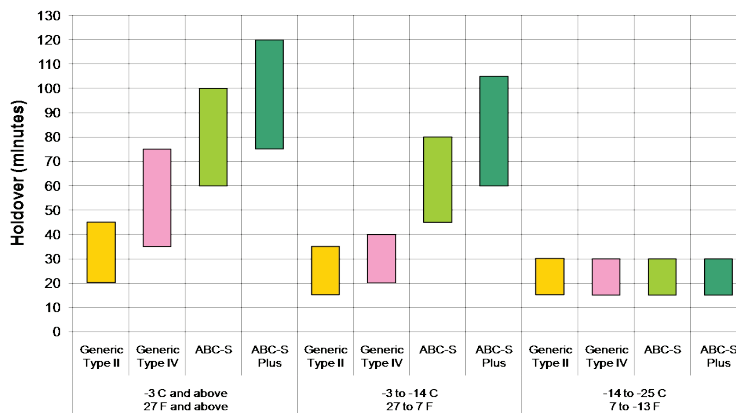
ISO 14001
EMS 89384

AN ISO 9001:2008 & 14001:2004 CERTIFIED COMPANY

PRODUCT SPECIFICATIONS - KILFROST ABC-S PLUS

COMPOSITION	Contains minimum 50% propylene glycol
APPEARANCE	Green liquid
DENSITY	At 20°C (68°F) = 8.65 lbs/US gallon
VISCOSITY	Minimum on-wing viscosity 17,900 mPa.s In Service Limits 17,900 - 44,000 mPa.s (Brookfield LVT, Spindle No. 2 @ 0.3 rpm @ 20°C (68°F)) Sales specification 25,000 - 30,000 mPa.s (Brookfield LVT, Spindle No. 2 @ 0.3 rpm @ 20°C (68°F))
FLASH POINT	None below 100°C
FREEZING POINT	100/0 = Below -37°C (-34.6°F) 50/50 = -10°C (+14°F)
REFRACTIVE INDEX	At 20°C (68°F) = 1.3916 ± 0.0015
SURFACE TENSION	At 20°C (68°F) = 27 dynes/cm
STORAGE STABILITY	2 years in the original sealed container
TYPICAL pH	At 20°C (68°F) = 7.0 ± 0.5
SPECIFIC GRAVITY	At 20°C = 1.038 ± 0.015
PACKAGING	55 gallon drums (208 liters) - (4 minimum) 265 gallon tote (1003 liters) - (1 minimum) Bulk - (5000 gallons minimum)

Holdover Comparison In Snow 100/0 Fluids
 (Data Source: FAA HOT Guidelines for Winter 2008-2009)



Revised - 06/09

TO ORDER OR FOR PRODUCT INFORMATION CONTACT:
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