



SAFE AIRCRAFT DEICING OPERATIONS



SPEC:

KILFROST DF Plus (88)[®]

Type I Aircraft Deicer

BENEFITS

- Propylene glycol based SAE Type I aircraft deicing/anti-icing fluid
- Meets current revision of FAA-approved specification AMS 1424
- Approved by all major aircraft manufacturers
- Now manufactured in North America by Cryotech Deicing Technology
- Easy to apply with existing equipment

PERFORMANCE

- Dilute to required temperature for economical savings
- Storage stability is 2+ years in sealed containers under normal storage conditions
- Lowest Operational Use Temperature (LOUT) is -32.5°C (-26.5°F)
- Superior sprayability

ENVIRONMENT

- Triazole free
- Does not contain nonyl phenol ethoxalate surfactants
- Toxicity: LC50 (pimephales promelas) 6250 mg/L (80%, 96 hours) - EPA 40CFR797.1400
LC50 (daphnia magna) 10,000 mg/L (80%, 48 hours) - EPA 40CFR797.1300
LC50 (pimephales promelas) 22,627 mg/L (50%, 96 hours) - EPS 1/RM/13; 1/RM/9 May 1996
LC50 (fathead minnows) 17,700 ppm (96 hours) - AMS 1424 D Testing per ASCI April 2000
LC50 (daphnia magna) 8500 ppm (48 hours) - AMS 1424 D Testing per ASCI April 2000
LC50 (ceriodaphnia dubia) 6700 ppm (48 hours) - AMS 1424 D Testing per ASCI April 2000

Ecological: fully biodegradable

Not classified as hazardous under any regulations, worldwide

HANDLING

- Avoid contact with skin and eyes
 - Avoid breathing mists/vapors when spraying
 - Store in tightly sealed containers, away from direct heat and strong oxidizing agents
- For advice on bulk and/or heated storage contact Cryotech



ISO 9001
FM 39092



ISO 14001
EMS 89384

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

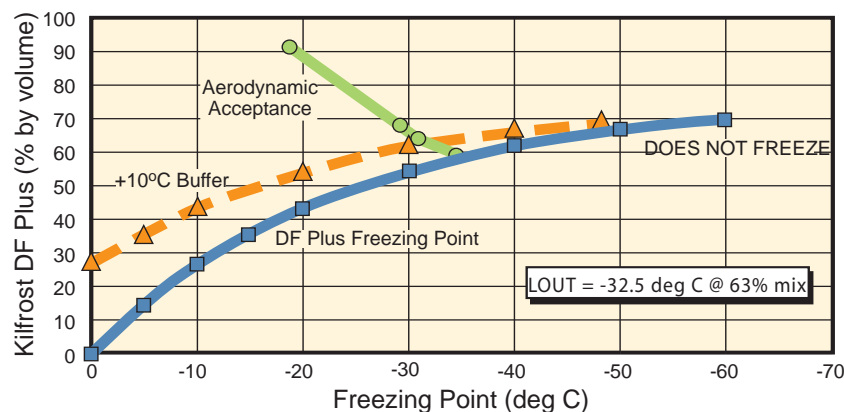
AN ISO 9001:2008 & 14001:2004 CERTIFIED COMPANY

PRODUCT

SPECIFICATIONS - KILFROST DF PLUS (88)[®]

COMPOSITION	Contains minimum 88% propylene glycol
APPEARANCE	Orange liquid
DENSITY	At 20°C (68°F) = 8.688 lbs/US gallon
VISCOSITY	Brookfield LVDV-1, Spindle No. LV1 @ 12rpm @ 20°C (68°F) = 38 mPa.s
FLASH POINT	Not lower than 100°C (212°F)
FREEZING POINT	100/0 = Below -60°C (-76°F) 50/50 = Not higher than -25.3°C (-13°F)
REFRACTIVE INDEX	At 20°C (68°F) = 1.4225 - 1.4255
SURFACE TENSION	At 20°C (68°F) = 36.7 dynes/cm
STORAGE STABILITY	2+ years under normal storage conditions
TYPICAL pH	At 20°C (68°F) = 8.0 - 9.0
SPECIFIC GRAVITY	At 20°C = 1.043
PACKAGING	55 gallon drums (208 liters) - (4 minimum) 265 gallon tote (1003 liters) - (1 minimum) Bulk - (5000 gallons minimum)

KILFROST DF PLUS (88)
Determination of LOUT



Revised - 06/09

TO ORDER OR FOR PRODUCT INFORMATION CONTACT:
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