



provifrost

a proviron brand



Cryotech

POLAR GUARD[®] II

Type II Aircraft De- / Anti-icing Fluid
AMS 1428 Certified

Benefits

- Lowest LOUT in the Industry
- Good storage / shear stability
- Long Holdover Times in all weather conditions
- Low viscosity provides easier handling and application
- Dedicated technical support; experienced with product transitions
- Certified propylene glycol based Type II aircraft de-icing / anti-icing fluid



Performance

- Superior sprayability - low foaming
- May be applied heated or cold, diluted or neat
- Low dry out residues
- Lowest Operational Use Temperature (LOUT) is:

| Dilution | Temperature |
|----------|-------------|
| Neat | -30,5°C |
| 75/25 | -14° C |
| 50/50 | -3° C |

- Two year product warranty (original sealed container; stored within temperature storage limits)

Environment

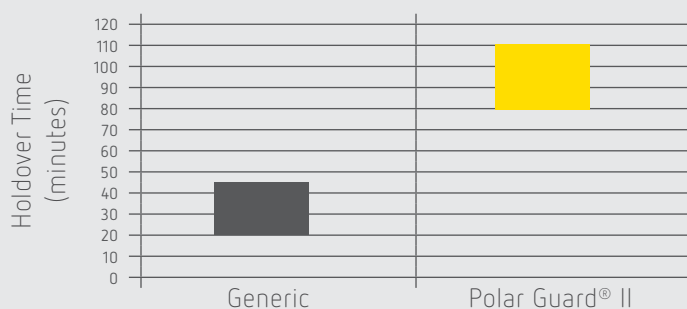
- Triazole free
- Does not contain nonylphenol ethoxylate surfactants
- Readily biodegradable
- Classified as non-hazardous

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 -30°C or above 60°C
- Contact Provion for advice on bulk and/or heated storage

| Cryotech Polar Guard® II specifications | |
|---|--|
| Composition | Contains minimum 50% propylene glycol |
| Appearance | Semi-transparent, straw colour (or colourless) |
| Viscosity* | Minimum on-wing 4050 mPa.s |
| | In Service Limits |
| | Neat 4050 - 16200 mPa.s |
| | 75/25 9750 - 38000 mPa.s |
| | 50/50 80 - 48000 mPa.s |
| | Sales specification 8000 - 15000 mPa.s |
| | *Brookfield LVT, Spindle No. 1 @ 0,3 rpm @ 20°C |
| Flash point | Not lower than 100°C |
| Freezing point | 100/0 = Below -37,6°C 50/50 = -10,6°C |
| Temperature storage limits | Minimum -30°C, Maximum 60°C |
| Refractive index | At 20°C |
| | Neat = 1,3900 - 1,3930 |
| | 75/25 = 1,3768 - 1,3809 |
| | 50/50 = 1,3622 - 1,3663 |
| Surface tension | At 20°C = 31,3 dynes/cm |
| pH at 20°C | Neat = 6,4 - 7,4 |
| | 75/25 = 6,4 - 7,4 |
| | 50/50 = 6,0 - 7,4 |
| Storage stability | 2 years in the original sealed container when stored within temperature limits |
| Specific gravity | At 20°C = 1,040 ± 0,015 |
| Packaging | 1000 liter IBC Bulk |

Snow/Snow Grains -3°C and Above 100/0



Snow/Snow Grains -3°C and Above 75/25

