



OCTAGON PROCESS

Cold Weather Aerospace Chemical Specialists

TECHNICAL SPECIFICATION

OCTAFLO EF

SAE / ISO Type I Aircraft Deicing Fluid

Type 1

Octaflo EF is a Propylene Glycol based, AMS 1424 Type I deicing fluid. It was developed as a low aquatic toxicity fluid to help answer the increasing environmental demands being placed on airports. It is the first type I fluid to meet the toxicity standard that was added to AMS 1424D.

Octaflo EF was first introduced in January 2000, and is now used throughout the United States, Europe, and Russia. Octaflo EF is manufactured and stored at strategic locations near major airports to help ensure on-time deliveries. A 65:35 dilution of Octaflo EF can be used at temperatures down to -27°F (-33°C).

BENEFITS OF OCTAFLO EF

- 88% Propylene Glycol
- Triazole Free
- Superior Wetting
- Low Freezing Point (Below -65°F)
- Low Aquatic Toxicity
- Low Foam

STORAGE AND HANDLING

Flexible Storage Options

Octaflo EF can be stored in a variety of containers, ranging from mild steel tanks to plastic totes.

Specially Formulated Dye

The dye package for Octaflo EF is dark enough to be seen during application, but not overpowering. The orange color is designed to fade after exposure to UV light - eliminating unsightly orange pools of glycol around the gates, pads, or other collection areas.

PHYSICAL CHARACTERISTICS

PH	REFRACTIVE INDEX	SPECIFIC GRAVITY	FLASH POINT
7.8 – 8.7	1.4240 – 1.4260	1.044	Above 100°C

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CONTACT US

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OCTAFLO EF

Type 1

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PHYSICAL CHARACTERISTICS

LOWEST OPERATIONAL USE TEMPERATURE	SURFACE TENSION
-27°F (-33°C) for 65:35 dilution	32 – 42 Dynes/cm

BIOLOGICAL OXYGEN DEMAND	BIODEGRADABILITY
0.60 KG O2 / KG OF FLUID	5 DAYS AT 20°C: > 35%

AQUATIC TOXICITY

		Concentrate Fluid	50:50 Dilution
Fathead Minnow	96 Hr LC ₅₀ :	10,800 mg/L	21,600 mg/L
Daphnia Magna	48 Hr LC ₅₀ :	17,900 mg/L	35,800 mg/L
Rainbow Trout	96 Hr LC ₅₀ :	11,500 mg/L	23,000 mg/L
Ceriodaphnia dubia	48 Hr LC ₅₀ :	13,800 mg/L	27,600 mg/L

DILUTION TABLE SHOWING LOWEST OPERATIONAL USE TEMPERATURE (LOUT)

DILUTION OCTAFLO EF : Water	REFRACTIVE INDEX ± 0.0015	BRIX ±0.50	FREEZING POINT	LOUT
100 : 00	1.4250	52.25	-	DO NOT USE
65 : 35	1.3980	39.00	-54°C -65°F	-33°C -27°F
60 : 40	1.3940	37.00	-40°C -40°F	-30°C -22°F
55 : 45	1.3890	34.25	-34°C -30°F	-24°C -12°F
50 : 50	1.3840	31.50	-28°C -19°F	-18°C -1°F
45 : 55	1.3780	28.50	-22°C -8°F	-12°C +10°F
40 : 60	1.3740	26.00	-19°C -2°F	-9°C +16°
35 : 65	1.3690	23.00	-15°C +5°F	-5°C +23°F
30 : 70	1.3640	20.00	-11°C +11°F	-1°C +29
25 : 75	1.3580	16.50	- 8°C +18°F	+0°C +32°F
20 : 80	1.3520	12.75	- 6°C +21°F	+0°C +32°F
10 : 90	1.3430	6.75	- 4°C +25°F	+0°C +32°F

Note: Octagon Process, Inc. recommends the use of a 10°C (18°F) Freezing Point Buffer below the Outside Air Temperature (OAT), however, for deicing ARP 4737 allows for the freezing point of the Fluid to be 3°C (5°F) above the OAT. Consult your Winter Operations manual for proper use of this fluid. The LOUT's listed are for large transport type jet aircraft. To obtain the LOUT's for low rotation speed aircraft, please contact Octagon Process.



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