

OCTAGON PROCESS

Cold Weather Aerospace Chemical Specialists

TECHNICAL SPECIFICATION

MAX FLIGHT 04

SAE/ISO Type IV Aircraft Anti-Icing Fluid

Type IV

Octagon Max Flight 04 is a Propylene Glycol based, AMS 1428 Type IV anti-icing fluid. It was originally introduced during the winter of 1997 as Max Flight, and has since become the most widely used Type IV fluid.

Octagon Max Flight has been re-certified under the name Max Flight 04 in order to provide increased protection times for its users. Max Flight 04 is approved for use by the aircraft manufactures, the FAA, Transport Canada, the major airlines and freight carriers.

BENEFITS

- Long Holdover times in all weather conditions.
- Lowest viscosity Type IV fluid – Superior sprayability and coverage.
- Excellent Storage Stability – No separation or settlement in your storage tanks.

COMPATIBILITY

Since Max Flight 04 is the same fluid as Max Flight, they are fully compatible.

- Max Flight 04 and Max Flight inventory can be co-mingled.
- Max Flight 04 and fluid from other manufacturers cannot be mixed

STORAGE AND HANDLING RAGE AND HANDLING

- **Max Flight 04 should be stored in Stainless Steel or Plastic containers.**
When stainless steel or plastic are not available, aluminum, and epoxy coated carbon steel containers may be used.
- **Compressed Air or Gravity should be used to transfer Max Flight 04.**
If neither is available, a positive displacement pump must be used.

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CONTACT US

24 Hour Order Placement
1-877-AVFUEL1
(1-877-283-8351)
EMAIL: deice@avfuel.com

Avfuel Corporation
47 W. Ellsworth Rd.
Ann Arbor, MI 48108
United States

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PHYSICAL CHARACTERISTICS

pH	REFRACTIVE INDEX	SPECIFIC GRAVITY	FLASH POINT
7.0 – 7.5	1.3900 – 1.3935	1.04	Above 100°C

DELIVERED VISCOSITY	SURFACE TENSION
8,000 – 12,000 mPa-s	30 dynes/cm

CONCENTRATION	REFRACTIVE INDEX	FREEZING POINT	LOUT
Neat	1.3900 – 1.3935	-36°C -33°F	-28°C -18°F
75:25	1.3750 – 1.3780	-21°C -7°F	-14°C +6°F
50:50	1.3605 – 1.3635	-10°C +14°F	-3°C +27°F

TOTAL OXYGEN DEMAND	BIODEGRADABILITY
0.78 kg O ₂ / kg of Fluid	5 Days: 65% 20 Days: 99%

AQUATIC TOXICITY	
Fathead Minnow (Pimephales promelas)	48 Hr LC ₅₀ : 1975 mg/L
Daphnia (Daphnia Magna)	48 Hr LC ₅₀ : 975 mg/L



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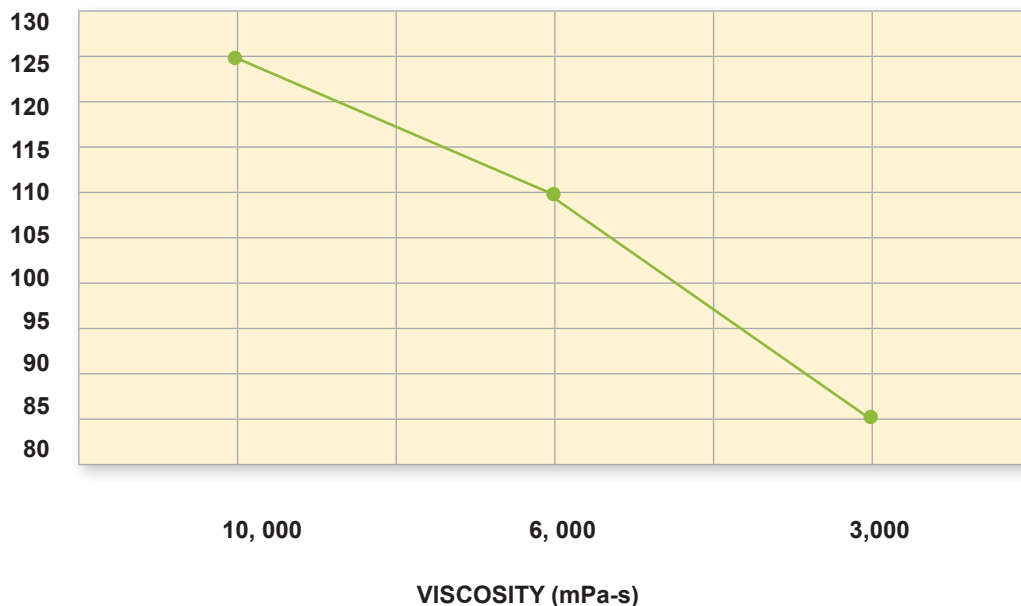
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VISCOSITY LIMITS

- Max Flight is 04 delivered in the viscosity range of 8,000 – 12,000 mPa-s
- The Max Flight 04 'Fluid Specific' Holdover Time Guidelines can be used for fluid with a viscosity of 5,540 – 14,500 mPa-s. To measure the 'on wing viscosity' the viscosity should be measured after the fluid has passed through the deicing truck nozzle.
- The SAE Generic Holdover Time Guidelines **MUST** be used for fluid with a viscosity of 3,000 – 5,520 mPa-s (out of the nozzle).
- If fluid is found with a viscosity below 4,000 mPa-s, excessive shear is being applied to the fluid. The piece of equipment responsible should be removed from service until the cause of the shear is determined and corrected.



The viscosity of Max Flight 04 should be determined using a Brookfield LV-DV II, or LV-DV II+ viscometer. The viscosity should be read using a # 1 cylindrical spindle at 0.3 rpm in 500mL of fluid at 20°C.

The small sample adaptor may be used but only with the 13R cup and the #34 or # 2 cylindrical spindles.



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