

## FLO™ T12

U.S. PATENT PENDING

### DESCRIPTION

Flo™ T12 is a high-strength solvent formulated to be the best possible balance of **worker safety, environmental safety, cleaning performance, and cost.**

In comparison to other fluorinated solvents, it delivers excellent solventcy while maintaining an ultra low Global Warming Potential. With no flash point and a high PEL, it is safer to work with than any other solvent type.

- **SNAP approved by the EPA.**
- **Non-flammable**
- **NO ozone depleting potential**
- **Very low total GWP < 60**

### CONFORMITY

Flo™ T12 has been designed to conform to the following specifications:

- **AMS1562B** Aircraft exterior surfaces
- **ARP 1755** Aircraft engine cleaning
- **ASTM-F-945** Stress corrosion of Titanium alloys (aircraft engine).
- **CSD#1** by Douglas Aircraft Company.
- **Boeing D6-17487 Rev.N** Exterior and general cleaner.
- **PWA 36604 Rev B** Hot corrosion testing of gas turbine alloys.

### COMPATIBILITY

Various metals have been tested for compatibility with Flo™ T12, in accordance with Mil-T-81533A. The metal corrosion test - 24 hours exposure to boiling solvent, has yielded no sign of corrosion on the following metals:

- ✓ **Aluminum**
- ✓ **Brass**
- ✓ **Carbon steel**
- ✓ **Copper**
- ✓ **Inconel**
- ✓ **Magnesium**
- ✓ **Monel**
- ✓ **S. Steel**
- ✓ **Titanium**
- ✓ **Zinc**

### APPLICATIONS

Flo™ T12 can be useful in various applications such as:

- ✓ **Cleaner-Degreaser**
- ✓ **Coatings Deposition**
- ✓ **Precision cleaning**
- ✓ **Metal cleaning**
- ✓ **Carbon removal**
- ✓ **Optics cleaning**
- ✓ **Drying agent**

Flo™ T12 can not be used in vapor degreasing equipment. If distilled, Flo™ T12 may leave behind a flammable tail end. Use it in place of MeCL, TCE, and nPB where cold cleaning, immersive cleaning, and material deposition is needed.

### PHYSICAL PROPERTIES

An evaluation and comparison between Flo™ T12 and other common solvents:

	Flo™ T12	Novec® 72DA	Vertrel® SFR	nPB	HCFC-141b
Boiling Point °C	<b>44</b>	44	41	70	32
Kauri Butanol Value	<b>110</b>	58	101	125	56
Specific Gravity, 25°C	<b>1.28</b>	1.27	1.28	1.32	1.24
Viscosity, 25°C, cps	<b>0.31</b>	0.40	0.58	0.49	0.43
S. Tension dy/cm, 25°C	<b>27.7</b>	18	19.9	24.2	19.3
Vapor Pressure mmHg, 25°C	<b>345</b>	360	434	112	518
Solubility in Water, w%	<b>minimal</b>	N/A	N/A	0.24	0.18
Flash Point, TCC	<b>None</b>	None	None	None	None
Flammability limits, v%	<b>N/A</b>	6-14.5	7-15	4-7.8	7.6-17.7
Half life in air	<b>5-12 days</b>	N/A	N/A	2 wks	10 yrs
ODP	<b>0</b>	0	0	0.01	0.1
GWP, total for product	<b>&lt; 60</b>	~120	> 250	0.31	725
PEL, ppm	<b>200*</b>	~200*	187*	25	500

\*(mfg recommended), based on study by independent sources.

# TECHNICAL DATA SHEET

## SAFETY

- Flo™ T12 is not a reportable chemical under SARA 313.
- Flo™ T12 is not regulated as a hazardous waste under RCRA.
- Flo™ T12 is not regulated as a hazardous air pollutant under NESHAP.
- Flo™ T12 is still considered a VOC and must be used reported according to local regulations.

For complete safety information, please refer to Flo™ T12 Safety Data Sheet.

## PACKAGING

Flo™ T12 is available in 550 Lb. drums and 50 Lb. pails.

Smaller size packaging available upon request.

The product should be stored in the original containers in a cool, dry and ventilated place. Do not expose to temperatures higher than 120°F.

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