

# FLO™ ZTe

U.S. PATENT PENDING

## INTRODUCTION

FLO™ ZTe is a precision cleaning solvent formulated for outstanding vapor degreasing characteristics.

It maintains comparable properties to other solvents, which were widely used but have been phased out such as the low boiling point of MeCL and the high wetting index of HCFC-141b. Aside from its superior cleaning properties, FLO™ ZTe has a very desirable environmental profile and has a permissive PEL.

- **SNAP approved by the EPA.**
- **Non-flammable**
- **NO ozone depleting potential**
- **Very low GWP < 35**

## CONFORMITY

FLO™ ZTe 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™ ZTe, 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**
- ✓ **Zinc**
- ✓ **Titanium**
- ✓ **Stainless Steel**

## APPLICATIONS

FLO™ ZTe can be useful in various applications such as:

- ✓ **Cleaner-Degreaser**
- ✓ **Printed Circuit Boards**
- ✓ **Precision cleaning**
- ✓ **Metal cleaning**
- ✓ **Flux removal**
- ✓ **Electronic parts cleaning**
- ✓ **Drying agent**

FLO™ ZTe can be utilized in existing vapor degreasing equipment after some adjustments. Use it in place of MeCL, TCE, HCFC-141b and other cleaning solvents.

## PHYSICAL PROPERTIES

An evaluation and comparison between FLO™ ZTe and other common solvents:

	FLO™ ZTe	Novac® 72DA	Vertrel® SFR	nPB	HCFC- 141b
Boiling Point °C	<b>45</b>	44	41	70	32
Kauri Butanol Value	<b>119</b>	58	101	125	56
Wetting Index	<b>149</b>	176	111	106	149
Specific Gravity, 25°C	<b>1.26</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>18</b>	18	19.9	24.2	19.3
Vapor Pressure mmHg, 25°C	<b>356</b>	360	434	112	518
Specific Heat, 25°C	<b>N/A</b>	N/A	N/A	0.27	---
Latent Heat, cal/gm	<b>N/A</b>	N/A	N/A	58.8	52.3
Solubility in Water, w%	<b>N/A</b>	N/A	N/A	0.24	0.18
Flash Point, TCC	<b>None</b>	None	None	None	None
Flammability limits, v%	<b>6-15</b>	6-14.5	7-15	4-7.8	7.6-17.7
ODP	<b>0</b>	0	0	0.01	0.1
PEL, ppm	<b>200*</b>	~200*	187*	25	500

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

# TECHNICAL DATA SHEET

## SAFETY

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

For complete safety information, please refer to FLO™ ZTe Safety Data Sheet.

## PACKAGING

FLO™ ZTe 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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