

## TMC-56 Specialty Fluorinated Solvent

TMC-56 is for INDUSTRIAL USE only. It is not designated for consumer use.

TMC-56 is a VOC exempt solvent that can be used neat in light cleaning or as a rinsing agent. Acting as a co-solvent it can add positive characteristics to heavy-duty cleaning blends. It was designed as an ideal substitute for solvents like Chemours Vertrel®, 3M Novec®, Honeywell’s Solstice, HCFC-225 and others.

This Technical Data Sheet (TDS) details TMC-56 physical and chemical properties, environmental profile, health, and safety information for typical applications. For further information please consult the Safety Data Sheet. (SDS)

### Features

- ZERO SURFACE RESIDUE
- LOW SURFACE TENSION
- LOW VISCOSITY
- NON-FLAMMABLE
- NO FLASH POINT
- VOC EXEMPT
- HIGH BOILING

**Packaging Information**

*Sold in:*

- 1 Gal. Bottle - 12 lbs. (5 kg)
- 5 Gal. Pail - 55 lbs. (25 kg)
- 55 Gal. Drum - 550 lbs. (250 kg)

### Applications

TMC-56 can be used as a light-duty cleaner, co-solvent, and a carrier fluid for deposition of materials such as silicone and other lubricants. Its quick evaporation rate and low water content and preferable environmental properties make this an ideal solvent for use in certain industries.

It can also be used as a heat transfer fluid, due to its non-flammability and low water content. It can replace HFC, CFC and HCFC in many applications.

### Materials Compatibility

TMC-56 is compatible with most polymers and elastomers typically encountered during industrial use.

#### COMPATIBLE PLASTICS AND ELASTOMERS

Polyethylene	Polypropylene	Polyvinylchloride (PVC, CPVC)	Acetal
Polyester (PET, BET)	Epoxy	Polyimide (PI, PEI, PAI)	PTFE, Teflon
Polyetherketone (PEK)	Polysulfone (PSO)	Polyaryletherketone (PEEK)	Phenolic
Polyarylsulfone (PAS)	Ionomer	Polyphenylene Sulfide (PPS)	EPDM

The solvent is also compatible with stainless steel, aluminum, iron, and every other metal commonly used in precision parts manufacturing.

Testing should always be done on parts to be cleaned in a particular process prior to implementing TMC-56 into the process. In laboratory bench tests of widely used plastics and elastomers, there were very few incompatibilities found after immersion in coiling vapors for up to 15 minutes.

## Properties

Appearance	Clear & Bright
Flash Point	None
Boiling Point	56°C
KB Value	13
Specific Gravity	1.47 g/mL @ 25°C
Viscosity	0.65mPa*s @ 25°C
Specific Heat	1.28 KJ/kg*K @ 25°C
Vapor Pressure	31kPa @ 25°C
Latent Heat of Vaporization @ bp	163kJ/kg
Dielectric Constant	6.6 @ 23°C
Dielectric Strength	28kV (Dielectric strength compared to Vertrel XF 27kV)
VOC Content	Exempt

## Flammability

TMC-56 exhibits no flash point on either Pensky-Martens Closed Cup (ASTM D93) or Tag Closed Cup (ASTM D56) methods and is not classified as flammable by OSHA or DOT. TMC-56 is not classified as flammable or hazardous for transport by DOT.

## Storage and Handling

TMC-56 is thermally stable and will not oxidize or degrade during storage under normal conditions. It is recommended to store the product inside a clean, dry area and out of direct sunlight or other heat sources. Do not freeze or store below 32°F (0°C) nor above 90°F (32°C) to prevent leakage or potential rupture of container due to contraction/expansion and pressure changes. Drum pumps are recommended to dispense the solvent from its container. Refer to the Safety Data Sheet for more information or contact TMC Industries for further assistance.

## Environmental Properties

TMC-56 ingredients are listed acceptable by the U.S. EPA under the SNAP program as a substitute for ozone depleting substances are not subject to SARA Title III (EPCRA) reporting regulation. It is not considered a Hazardous Air Pollutant (HAP) and therefore is not regulated under NESHAP.

TMC-56 is not considered hazardous waste in the US as long as hazardous material is not deposited into the solvent during the cleaning process.

## Health & Safety

Refer to the SDS for detailed description of the figures for the individual chemical component of TMC-56 and required/recommended PPE.



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