

TMC-7200 ENGINEERED FLUID

TMC-7200 Engineered Fluid is a miscible drop-in replacement for 3M™ Novec™ 7200.

PRODUCT INFORMATION

The low surface tension and low viscosity of TMC-7200 fluid make it ideal for use in vapor degreasing and cold cleaning applications. In addition, its chemical and thermal stability, non-flammability, and low toxicity make it useful for other industrial applications such as specialty solvent and heat transfer applications. TMC-7200 fluid has a higher boiling point than most CFCs, HCFCs, and HFCs, reducing evaporative losses.

APPLICATIONS

- · CFC, HCFC, HFC, and PFC replacement agent
- Lubricant carrier, Fluorocarbons, Hydrocarbons, and Silicones
- · Cold cleaner (flex circuits, wipe solvent)
- · Cleaning and rinsing agent for vapor-degreasing
- Specialty solvents, dispersion medium, reaction medium, extraction solvent
- · Heat Transfer Fluid
- Light-duty cleaning (neat) particulates, fluorolubes, light oils, fluoropolymers

FEATURES

- 3rd Party Tested Meets Current PFAS Guidelines
- Zero Ozone Depletion Potential (ODP)
- Low Global Warming Potential (GWP)
- · High Boiling Point
- Non-Flammable
- RoHS Compliant

MATERIALS COMPATIBILITY

TMC-7200 fluid is compatible with most metals and hard polymers. Soft and elastomeric materials should be limited to compounds that contain the least amount of extractable plasticizer.

Compatible Materials

METALS	PLASTICS	ELASTOMERS ¹
Aluminum	Acrylic (PMMA)	Butyl Rubber
Copper ²	Polyethylene	Natural Rubber
Carbon Steel	Polypropylene	Nitrile Rubber
302 Stainless Steel	Polycarbonate	EPDM
Brass ²	Polyester	
Molybdenum	Ероху	
Tantalum	PET	
Tungsten	Phenolic	
Cu/Be Alloy C172	ABS	
Mg Alloy AZ32B		

¹As with most fluorinated liquids, TMC-7200 fluid will absorb into fluorinated plastics (e.g., PTFE) and elastomers (e.g., FFKM, FKM types) over longer exposures. Absorption and swelling of silicone rubber are also observed. Not all formulations of these polymers are compatible. ²Some surface oxidation of copper during testing.



TMC-7200 Continued

PHYSICAL & ENVIRONMENTAL PROPERTIES COMPARISON

PROPERTY	UNITS	3M [™] NOVEC [™] 7200	TMC-7200
Туре	_	Legacy	Replacement
Form	_	Liquid	Liquid
Color	_	Colorless	Colorless
Odor		Odorless	Odorless
Boiling Point	°C	76	76
Freeze/Pour Point	°C	-138	-138
Average Molecular Weight	g/mol	264	264
Calculated Critical Temperature	°C	210	210
Vapor Pressure	kPa	16	16
Latent Heat of Vaporization		TBD	TBD
Liquid Density	kg/m³	1430	1430
Kinematic Viscosity	cSt	0.41	0.41
Specific Heat		TBD	TBD
Surface Tension	mN/m	13.6	13.6
Solubility of Water in Solvent	ppmw	92	92
Solubility of Solvent in Water	ppmw	<20	<20
Dielectric Strength	kV	>40	>40
Volume Resistivity	Ohm-cm	108	10 ⁸
Ozone Depletion Potential (ODP)		0.0	0.0
Global Warming Potential (GWP)		59	59
Flash Point		None	None
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Not for specification purposes. All values @ 25°C unless otherwise specified.

TMC-7200 Continued

PACKAGING

TMC-7200 is available in the following sizes and weights:

- 1 Gallon Jug 12 lb / 5.4 kg
- 5 Gallon Pail 44 lb / 20 kg
- **55 Gallon Drum** 550 lb / 250 kg
- Sample 2.2 lb / 1 kg
- 275 Gallon Tote Available Upon Request

SHELF LIFE & STORAGE

Shelf life is 5 years from the date of manufacture when stored in the original packaging materials and stored under normal conditions. TMC will re-certify material every 5 years up to 20 years.

DISPOSAL & RECYCLING

This fluid can be recycled and reused. Help protect the environment and don't pay for expensive disposal services.

TMC Industries can reclaim your used fluorinated fluids, restoring them to like-new condition, and save you up to 50% in replacement fluids while protecting the environment.

TMC Reclaimed Fluids are tested to meet new product specifications. It will be clear and odorless, and a Certificate of Analysis is issued with every order.

TMC Industries offers a **100% satisfaction guarantee** on all our reclaimed fluids. We back this up with a no-questions-asked refund policy. To learn more, <u>click here.</u>

EXTERNAL DOCUMENTS

- 3rd Party Laboratory Testing: Non-Detectable PFAS
- TMC Used Fluid Reclamation Service Brochure

Safety and Handling: Before using this product, please thoroughly read the current product SDS and label, following all applicable safety precautions described therein (e.g., recommended storage and safe handling, appropriate exposure controls and personal protective equipment (PPE), addressing accidental spills, disposal considerations, etc.).

Safety Data Sheet: Consult Safety Data Sheet before use.

Regulatory: For regulatory information about this product, contact your TMC representative.

Technical Information: The technical information, recommendations and other statements contained in this document are based upon tests or experience that TMC believes are reliable, but the accuracy or completeness of such information is not guaranteed.

Product Use: Many factors beyond TMC's control and uniquely within user's control can affect the use and performance of a TMC product in a particular application. Given the variety of factors that can affect the use and performance of a TMC product, user is solely responsible for evaluating the TMC product and determining whether it is fit for a particular purpose and suitable for user's method of application.

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