____ Product Data ____

Methyl Phenyl Silicone Fluid TSF431

TSF431 is a methyl phenyl silicone fluid for low temperature use.

KEY FEATURES

• Excellent low temperature property: keeps flowability even at -70°C.

TYPICAL APPLICATIONS

Damping fluid, lubrication fluid at low temperature circumstance.

TYPICAL PROPERTY DATA

PROPERTIES							
Appearance		Colorless, transparent					
Specific gravity (25°C)		0.99					
Viscosity (25°C)	mm²/s	100					
Weight loss (150°C, 24h)	%	4					
VTC*		0.63					
Refractive index (n _D ²⁵)		1.424					
Pour point	°C	-70 max					
Surface tension	mN/m	21.3					
Volume expansion	1/K	9.6×10 ⁻⁴					
Specific heat (25°C)	J/(g·K)	1.6					
Thermal conductivity	W/(m·K)	0.15					
Flash point	°C	228					

^{*}VTC (Viscosity Temperature Coefficient) = 1 - Viscosity at 98.9°C / Viscosity at 37.8°C

Typical property data values should not be used as specifications.

COMPATIBILITY

GRADE	Dimethyl silicone fluid		Methylphenyl silicone fluid			
	TSF405	TSF451-100	TSF431	TSF433	TSF437	TSF4300
TSF405		0	0	0	0	0
TSF451-100	0		0	×	×	×
TSF431	0	0		×	Δ	Δ
TSF433	0	×	×		0	0
TSF437	0	×	Δ	0		0
TSF4300	0	×	Δ	0	0	

O: Soluble

Δ: Soluble when TSF431 content is more than 90% ×: Insoluble

HANDLING AND SAFETY

- Wear eye protection, protective gloves at all times when working with this product.
- Use the product in a well ventilated area.

STORAGE

- Store in a cool and dry place out of direct sunlight.
- Keep out of the reach of children.

PACKAGING

- 1kg available in case of 10
- 15kg can available
- 200kg drum available

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