

Produktinformation

ÄRONIX Siliconöl - mittelviskos - Silicone Fluid

Colorless, clear polydimethylsiloxane fluid



FEATURES

- Ease of application and rubout
- High water repellency
- High compressibility
- High shearability without breakdown
- High spreadability and compatibility
- Low environmental hazard
- Low fire hazard
- Low reactivity and vapor pressure
- Low surface energy
- Good heat stability
- Essentially odorless, tasteless and nontoxic
- Soluble in a wide range of solvents

COMPOSITION

- Polydimethylsiloxane polymers
- Chemical composition $(\text{CH}_3)_3\text{SiO}[\text{SiO}(\text{CH}_3)_2]_n\text{Si}(\text{CH}_3)_3$

APPLICATIONS

- Various applications including cosmetic ingredient, elastomer and plastics lubricant, electrical insulating fluid, foam preventive or breaker, mechanical fluid, mold release agent, surface active agent, and solvent-based finishing and fat liquoring of leather

DESCRIPTION

ÄRONIX Siliconöl – mittelviskos is a polydimethylsiloxane polymer manufactured to yield essentially linear polymers in a wide range of average kinematic viscosities.

HOW TO USE

ÄRONIX Siliconöl – mittelviskos is highly soluble in organic solvents such as aliphatic and aromatic hydrocarbons, and the halocarbon propellants used in aerosols.

PRODUCT SAFETY INFORMATION

ÄRONIX Siliconöl – mittelviskos 50-1,000 CS may cause temporary eye discomfort.

TYPICAL PROPERTIES

Specification Writers: These values are not intended for use in preparing specifications.

Test	Unit	Result
Appearance		Crystal clear
Specific Gravity at 25°C (77°F)		0.970
Refractive Index at 25°C (77°F)		1.4035
Color, APHA		5
Flash Point, Open Cup	°C (°F)	>326 (>620)
Acid Number, BCP		trace
Melt Point	°C (°F) ^{1,2}	25 (-13)
Pour Point	°C (°F)	50 (-58)
Surface Tension at 25°C (77°F)	dynes/cm	21.2
Volatile Content, at 150°C (302°F)	percent	0.11
Viscosity Temperature Coefficient		0.61
Coefficient of Expansion	cc/cc/°C	0.00096
Thermal Conductivity at 50°C (122°F)	g cal/cm·sec °C	0.00038
Solubility Parameter ³		7.4
Solubility in Typical Solvents		
Chlorinated Solvents		High
Aromatic Solvents		High
Aliphatic Solvents		High
Dry Alcohols		Poor
Water		Poor
Fluorinated Propellants		High
Dielectric Strength at 25°C (77°F)	volts/mil	400
Volume Resistivity at 25°C (77°F)	ohm-cm	1.0x10 ¹⁵

¹The melt point temperature is a typical value and may vary somewhat due to molecular distribution. If the melting point is critical to your application, then several lots should be thoroughly evaluated.

²Due to different rates of cooling, this test method may yield pour points lower than the temperature at which these fluids would melt.

³Fedors Method: R.F. Fedors, Polymer Engineering and Science, Feb. 1974.

USABLE LIFE AND STORAGE

Product should be stored at or below 60°C (140°F) in the original unopened containers.

LIMITATIONS

This product is neither tested nor represented as suitable for medical or pharmaceutical uses. Not intended for human injection. Not intended for food use.

LIMITED WARRANTY INFORMATION – PLEASE READ CAREFULLY

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