

JoshTherm

FG 46 Food Grade Thermic Fluid

Product Description

JoshTherm is a premium Synthetic PAO + White Oil Blend (FDA Approved) Food Grade Thermic Fluid designed for Pharmaceutical processing, nutraceuticals, cosmetics manufacturing, specialty food production. Meets NSF HT1, FDA 21 CFR 178.3570, ISO 21469, DIN 51522-Q Premium specifications and delivers exceptional performance in demanding conditions.

Technical Specifications

Appearance	Crystal clear liquid
Density at 15°C	0.855-0.875 g/cm³
Kinematic Viscosity at 40°C	42-50 cSt
Kinematic Viscosity at 100°C	7.0-8.5 cSt
Viscosity Index	135 min
Flash Point (COC)	250°C min
Fire Point	270°C min
Pour Point	-18°C max
Auto Ignition Temperature	390°C
Max Bulk Temperature	320°C
Max Film Temperature	345°C
Thermal Conductivity at 100°C	0.128 W/m·K
Specific Heat at 100°C	2.20 kJ/kg·K
Carbon Residue (Conradson)	0.003% max
Total Acid Number	0.01 mgKOH/g max
Certification	NSF HT1, ISO 21469, Kosher, Halal
Oxidation Stability (RPVOT)	600+ minutes
Service Life	Extended vs mineral types

Applications

Pharmaceutical processing, nutraceuticals, cosmetics manufacturing, specialty food production

Performance Standards

NSF HT1

Handling & Storage

- Store in a cool, dry place away from direct sunlight
- Keep container tightly closed when not in use
- Shelf life: 36 months from date of manufacture
- Do not mix with other lubricants