



Synthetic Lubricants and Filters, Inc.

# Technical Data Sheet SF80FG

## Spiral Freeze Food-Grade Low-Temperature Lubricant

**SF80FG** is a multipurpose synthetic lubricant that is formulated for use in various low-temperature applications that require an H1 food-grade lubricant, including cryogenic freezing temperatures.

**SF80FG** utilizes a unique combination of synthetic base fluids and advanced additives that provides excellent protection against wear, oxidation and rust, while also ensuring outstanding low-temperature fluidity: a rare combination in a food grade formulation. The excellent demulsibility (water separation) combined with water washout and fling-off resistance helps **SF80FG** maintain lubricant film on moving to ensure maximum lubrication and protection. **SF80FG** meets USDA H1 requirements for incidental food contact and complies with the requirements listed in ISO 21469, FDA 21 and CFR 178.3570

- SF80FG is suitable for use in the following equipment:
- Ball chain rails
- Spiral plate freezers
- Low-temperature hydraulic systems
- Industrial gearboxes, including those containing yellow metals and worm gears
- Low-temperature conveyor systems

### Attributes:

- Food-grade formulation that meets USDA H1 requirements and complies with FDA 21 and CFR 178.3570
- Very high viscosity index for enhanced lubrication and superior protection at low temperature
- Excellent film strength and anti-wear properties
- Outstanding cold temperature fluidity
- Resists fling-off and remains on the chain for maximum lubrication and protection
- High stability and demulsibility in wet environments
- Excellent rust, corrosion and deposit resistance; non-toxic, non-hazardous

### Typical Properties:

• USDA Authorization	H-1
• Viscosity Index	138
• Vis cSt @ 40 °C	33.3
• Vis cSt @ 100 °C	6.2
• Flash Point °F	238
• Auto-Ignition Point °F	382
• Pour Point °F	-79
• Copper Corrosion, 24 Hr	1a
• Four ball, 40 kg, 1200 rpm 75°C 1hr, SCAR DIA mm	0.42
• Four Ball Weld Point, kg	100
• Coefficient of Friction	0.8
• Demulsibility, 54°C, 30 Min	40/40/0
• Color	<.5
• Rust Test	
Distilled Water	Pass
Sea Water	Pass

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The information on Synthetic Lubricants & Filters, Inc. and competitive products should only be used as a general guide. Lubricant properties are typical results and should not serve as a sole resource for determining the correct lubricant for a particular application. Please consult a Synthetic Lubricants & Filters, Inc representative to ensure that the product is the correct choice for the application.