

**TECHNICAL DATA SHEET**

**Perfluoropolyether Grease *Rapid-Chem*<sup>TM</sup> PF-66**

*Rapid-Chem*<sup>TM</sup> PF-66 is silicone free perfluoropolyether grease. Do not contain any VOC materials or chlorine and are not hazardous to the atmosphere or ozone layer.

Developed for use in systems where non-reactivity with harsh chemicals including strong acids and oxidizers, fuels, solvents, etc. is an important factor. Typical applications are automotive bearings, sealed pump bearings, electric motor bearings, and general purpose bearings.

*Rapid-Chem*<sup>TM</sup> PF-66 grease contains an anti-corrosion/anti-wear inhibitor and is ideal for corrosive environments where there is no danger of the sodium nitrite additive reacting with chemicals or causing contamination problems.

**PERFORMANCE TEST**

Color		White
Temperature Range		-59°C to 300°C
NLGI No.		2
Density	g/cm <sup>3</sup>	1.99
Unworked Penetration	ASTM D-1403 25°C	265-295
Worked Penetration	ASTM D-1403 60 strokes	265-295
Evaporation	ASTM D-2595 22 hrs, 204°C, max	0.05%
	22 hrs, 232°C, max	0.10%
Oil Separation	FED-STD-791, Method 321 30 hrs, 204°C, max	10.50%
Fuel Solubility	FED-STD-791, Method 5414	0.12%
Resistance to Fuel	FED-STD-791, Method 5414 8 hrs @ 25°C	No Deterioration
Film Stability and Corrosion on Steel	MIL-PRF-27617F 168 hrs @ 100°C	No Resinous Deposit, No Corrosion
Water Washout	ASTM D-1264 1 hr @ 38°C	0.05%
Four-Ball Wear Test	ASTM D-2266 1200 rpm, 40kg, 75°C, 52100 steel, 1 hour	0.70 mm
	2 hours	0.80 mm
Low Temperature Torque	ASTM D-1478	3965 g-cm

	@-59°C, Starting, max	
	10 min Running, max	2800 g-cm
	60 min Running, max	2050 g-cm
Copper Corrosion	ASTM D-130 24 hrs, 100°C	1a
LOX Impact Sensitivity	ASTM D-2512 20 Impacts from 1100 mm	No Reaction
Oxidation Stability	ASTM D-492 121°C, 100 hrs	0 psi Drop
Vapor Pressure	Knudsen 20°C	10-5 Torr
Temperature Range		-59°C to 300°C

#### Application

- Lubrication of Video/Audio, precise and optical instrument
- Lubricate on rubber surface
- Avoid noise raise from parts to parts
- Slide which need decrease friction index

#### Storage and Handling

RapidChem mold release agent should be stored in a cool, dry, well ventilated area. Do not expose to freezing temperatures. Freezing will affect the physical condition, but will not damage the release effectiveness. Thaw at room temperature, and mix well before using.

#### Shelf Life

RapidChem™ LUBE series has a shelf life of 2 years from the date of shipment.

#### FREE OF OZONE DEPLETION COMPOUNDS (ODC)

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