Helmar H4000 Silicone Fluid

Technical Data Sheet

FEATURES & BENEFITS

Ease of application, Lubricates, Protects, Shines, Restores,

Food grade silicone, Non – staining, Superior corrosion resistance,

Superior water & salt water resistance, Superior low and high temperature performance,

Withstands mild acid & alkaline exposure, Low friction,

Resistant to oxidation, chemicals and weather,

Prevents ice adhesion. Repeals ink & water, Enhances colour,

High spreadability and compatibility, Low environmental hazard, Low fire hazard,

Low reactivity and vapour pressure, Essentially odourless, tasteless and non-toxic,

Soluble in a wide range of solvents.

DESCRIPTION

Helmar H4000 Silicone is a polydimethylsiloxane polymer.

COMPOSITION

Polydimethylsiloxane polymers

HOW TO USE

Helmar H4000 Silicone Fluid is highly soluble in organic solvents such as aliphatic and aromatic hydrocarbons. Helmar H4000 Silicone is insoluble in water and many organic products. A ratio of 5-10% Helmar H4000 Silicone oil to your chosen solvent is needed for applications to form a uniform film and effective barrier.

Do not spray or apply on any surface (which is to be walked on), as the surface will become slippery. To remove silicone overspray or excess from surfaces use a clean cloth and solvent.

APPLICATIONS

N.B. Always test first for your specific application.

Home: Curtain tracking, sliding draws, sliding windows, door tracking, squeaky hinges, garage door tracking, zippers, hand saw blades, circular saw blades, compound saw blades, pruners, hedger, shears & cutters, leather, plastic, rubber, swimming pool filter equipment (preserves & protects rubber o-rings). + Hundreds of other uses!

Sport: Fishing equipment (rods & reels), firearms, fishing equipment, leather footwear, ski equipment (bindings), treadmills, archery, sailing and boating equipment. + Hundreds of other uses!

Automotive: Door locks, hinges, stops moisture buildup in ignition systems, all rubber components, dashboards, trim, rubber mouldings, tyres, battery terminals, cables, window channels. + Hundreds of other uses!

Industrial: Sliding surfaces, conveyor belts, as a mould & release agent, heat-sealing equipment, as a spatter guard, cutting knives, saw blades, needle points, fabric cutting tables surfaces. + Hundreds of other uses!

Food Grade

Helmar H4000 Silicone spray and concentrate meet the requirements of lubricants with incidental food contact.

Helmar H4000 Silicone may be safely used on machinery used for producing, manufacturing, packing, processing, preparing, treating, packaging, transporting, or holding food.

Where Helmar H4000 Silicone is used on food-processing equipment as a protective anti-rust film, as a release agent on gaskets or seals of tank closures, and as a lubricant for machine parts and equipment in locations in which there is exposure of the lubricated part to food. The amount used should be the minimum required to achieve the desired technical effect on the equipment, and any addition to food is not to exceed one part per million.

TYPICAL PROPERTIES

Test	Unit	Helmar H4000
Appearance		Crystal clear
Specific Gravity at 25°C (77°F)		0.969
Refractive Index at 25°C (77°F)		1.4034
Color, APHA		5
Viscosity		350 cSt
Flash Point, Open Cup	°C (°F)	>326 (>620)
Acid Number, BCP		trace
Melt Point	°C (°F) 1,2	-26 (-15)
Pour Point	°C (°F)	-50 (-58)
Volatile Content, at 150°C (302°F)	percent	0.15
Solubility Parameter		7.4
Solubility in Typical Solvents		
Chlorinated Solvents		High
Aromatic Solvents		High
Aliphatic Solvents		High
Dry Alcohols		High
Water		Poor

PRODUCT SAFETY INFORMATION

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED IN THIS DOCUMENT. BEFORE HANDLING, READ PRODUCT SAFETY DATA SHEET AND CONTAINER LABELS FOR SAFE USE, PHYSICAL, ENVIRONMENTAL, AND HEALTH HAZARD INFORMATION.

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