

# NOVAGARD<sup>®</sup>

## SILICONES

# Versilube<sup>®</sup> G321<sup>™</sup>

## Specification Data

### DESCRIPTION

Versilube<sup>®</sup> G321 is a soap-thickened, dimethyl-diphenyl polysiloxane based grease. Formulated to conform with the specifications outlined in the commercial item description (CID) A-A-59173 Type II, Versilube G321 resists oxidation and degradation even under extreme conditions.

### APPLICATIONS

This product has an exceptionally broad operating temperature range; the grease retains its lubricity at temperatures as low as -100°F (-73°C), which makes it well suited for use in cryogenic systems. Also, Versilube G321 is designed to have excellent long term aging and work stability characteristics that make it ideal for use in neglected areas.

### RESTRICTIONS

Do not use in or around highly oxidative chemicals such as liquid oxygen, chlorine or peroxides.

### AVAILABILITY

Versilube G321 is available in 5.3 ounce tubes, 1-gallon pails, 5-gallon pails, and 55-gallon drums.

### STORAGE

Versilube G321 has a shelf-life of eighteen (18) months from the date of manufacture when stored in the original, unopened container at, or below, 100°F. Upon prolonged storage, it is normal for a small amount of fluid bleed to appear on the surface of the grease. This condition is not detrimental to the performance and the fluid is simply mixed back into the suspension.

### PRODUCT SPECIFICATIONS

Physical Property	Test Method	Performance Range
Appearance		Off-white to tan paste
Penetration (worked 60X)	ASTM D 217	260-300
Bleed	150°C / 24 hours	4.0 % maximum
Evaporation	150°C / 24 hours	3.0 % maximum

### PRECAUTIONS

Silicone greases may be cleaned with non-polar solvents such as toluene, hexane and mineral spirits. Whenever using solvents be certain to observe all proper, safety precautions. Not for application on surfaces that are to be painted.

Consult and obey all applicable local, state and federal regulations for disposal of solvent and silicone waste. For additional information consult product M.S.D.S.

### ADDITIONAL INFORMATION

Novagard believes that the information provided is a true and accurate description of the typical characteristics of the aforementioned product; however, it is the responsibility of the individual user to thoroughly test the product in their specific application to determine performance, efficacy and safety.

### TYPICAL PROPERTIES\*

Physical Property	Test Method	Performance Range
Dropping Point	ASTM D 566	190°C (375°F) minimum
Specific Gravity		0.99 - 1.04
Water Washout	ASTM D 1264	3.0 % maximum
Oxygen Stability	150°C / 50 hours	5 psi drop maximum
Corrosion	Copper substrate	No effect
Dirt Count		
25 microns or greater		7500 maximum
75 microns or greater		1600 maximum
125 microns or greater		0 maximum

\*The values outlined reflect testing that was conducted on laboratory prepared specimens, actual results may vary. The information provided in the above table is not intended for use in preparing specifications. Please consult manufacturer for additional information.

Novagard **Solutions**<sup>™</sup>

5109 Hamilton Avenue  
Cleveland, OH 44114

[WWW.NOVAGARD.COM](http://WWW.NOVAGARD.COM)

Form Name  
10-D3-G321

Phone: (216) 881-3890 Facsimile: (216) 881-6977

Effective Date  
04-01-08