

# Information About Dow Corning® 1292 Long Life Bearing Grease

**Type**

Fluorosilicone oil thickened with an organic solid

**Physical Form**

Grease

**Special Properties**

Chemical resistance; excellent load-carrying ability; lubricates at moderate speeds and extreme temperatures

**Primary Use**

Industrial lubricant for mechanical equipment and parts subject to prolonged periods of adverse use conditions

**DESCRIPTION**

Dow Corning® 1292 Long Life Bearing Grease consists of a fluorosilicone oil thickened with a high-melting point organic solid. This grease is designed to lubricate in continuous service from approximately -40 to 400°F (-40 to 204°C) and in intermittent service to approximately 500°F (260°C), and when compared with organic oils shows much less change of viscosity with temperature.

The load-bearing capacity of Dow Corning 1292 Long Life Bearing Grease is comparable with that of the best unfortified petroleum greases.

**USES**

Dow Corning 1292 Long Life Bearing Grease is especially useful in bearings that are exposed to harsh chemicals or solvents, bearings used at moderate speeds and extreme temperatures, and bearings subject to heavy loads. This fluorosilicone grease has successfully lubricated a variety of mechanical equipment parts, including those with steel-against-steel surfaces. Used in the automotive, aerospace, steel, glass and

mineral industries, Dow Corning 1292 Long Life Bearing Grease efficiently lubricates:

- Antifriction bearings
- Sleeve bearings
- Splines
- Instrument gears
- Valves, including tapered plug-type
- Gaskets, seals, packings
- Engine linkages
- Circuit breaker components

Other industrial uses include chemical and petroleum processing equipment commonly subjected to heat, chemicals, solvents and corrosive atmospheres, and appliances and machines where mechanisms are lubricated for life, or infrequently.

**HOW TO USE**

Apply Dow Corning 1292 Long Life Bearing Grease like any other grease, (brushing, gunning, etc). Internal spaces of antifriction bearings should be filled with grease. The remaining space in the housing, however, should

**TYPICAL PROPERTIES**

**These values are not intended for use in preparing specifications.**

	Base Oil .....	Fluorosilicone
	Base Oil Viscosity, SUS at 100°F (38°C) .....	2295
	Thickener .....	Polyurea
	Color .....	Off-white
ASTM D 217	Penetration, worked 60 strokes .....	300
	Estimated Temperature Range, °F (°C) .....	-40 to 400 (-40 to 204)
	NLGI Consistency .....	No. 1
	Specific Gravity at 77°F (25°C) .....	1.28
	Bleed <sup>1</sup> , after 24 hr at 302°F (150°C), percent .....	1.2
ASTM D 972	Evaporation, after 24 hr at 302°F (150°C), percent .....	3.0
ASTM D 566	Dropping Point, °F (°C) .....	>570 (>300)
	4-Ball Wear Scar <sup>2</sup> , 1200 rpm, 40 kg load, 167°F (75°C), steel on steel, 1 hr, mm .....	1.33
ASTM D 2596	Weld Load <sup>3</sup> , kg .....	340
ASTM D 1264	Water Washout, weight loss, percent .....	0.4
	Low Temperature Torque at -40°C (-40°F) starting, g-cm .....	2,389
	running, g-cm .....	1,237
ASTM D 130-56	Copper Corrosion .....	Pass
	Estimated Maximum Dn Value, bore size in mm x rpm .....	200,000

<sup>1</sup>Federal Standard 791, Method 321.

<sup>2</sup>Federal Standard 791a, Method 6514.1.

<sup>3</sup>Federal Standard 791a, Method 6503.

**Specification Writers: Please obtain a copy of the Dow Corning Sales Specification for this product and use it as a basis for your specifications. It may be obtained from any Dow Corning Sales Office, or from Dow Corning Customer Service in Midland, MI. Call (517) 496-6000.**

be filled only about half full. Follow the lubricant application instructions of the bearing manufacturer.

**LIMITATIONS**

*Dow Corning* 1292 Long Life Bearing Grease should not be mixed with other greases. Compatibility problems are expected with lithium-thickened greases.

*Dow Corning* 1292 Long Life Bearing Grease should not be applied to surfaces that will be painted.

**Toxic vapors may be evolved from *Dow Corning* 1292 Long Life Bearing Grease at temperatures above 302°F (150°C). Provide adequate ventilation if temperatures are likely to exceed this point.** *Dow Corning* 1292 Long Life Bearing Grease is essentially nontoxic except when heated to a point where decomposition occurs.

This material is neither tested nor represented as suitable for medical or pharmaceutical uses.

**SHIPPING LIMITATIONS**

None.

**STORAGE AND SHELF LIFE**

For best results, *Dow Corning* 1292 Long Life Bearing Grease should be stored at temperatures below 90°F (32°C). This material has a shelf life of 60 months from date of manufacture.

**PACKAGING**

*Dow Corning* 1292 Long Life Bearing Grease is available in 5.3-oz (150-g) tubes and 10-, 45- and 130-lb (4.5-, 20.4- and 59.0-kg) containers. All weights, net.

**SAFE HANDLING INFORMATION**

PRODUCT SAFETY INFORMATION REQUIRED FOR SAFE USE IS NOT INCLUDED. BEFORE HANDLING, READ PRODUCT AND MATERIAL SAFETY DATA SHEETS AND CONTAINER LABELS FOR SAFE USE,

**Table I: Chemical Resistance of *Dow Corning* 1292 Long Life Bearing Grease**

Test Chemical	Resistance
After 24 hours, Federal Standard 791c, Method 6.2	
Acetone .....	Soluble
Ammonium Hydroxide, 10 percent .....	Fair to Good
Benzene .....	Excellent
Butyl Acetate .....	Soluble
Ethanolamine .....	Good
Ethylenediamine .....	Fair
Ethylene Glycol .....	Excellent
Gasoline .....	Good
Hydrochloric Acid, concentrated .....	Excellent
Hydrochloric Acid, 10 percent .....	Excellent
Iso-octane .....	Excellent
Kerosene .....	Good
Methyl Chloride .....	Soluble
Methyl Ethyl Ketone .....	Soluble
Perchloroethylene .....	Good
Sodium Hydroxide, 10 percent .....	Good
Sodium Hydroxide, 50 percent .....	Fair to Good
Sulfuric Acid, concentrated .....	Soluble
Tap Water .....	Excellent
2B Ethanol .....	Good
JP-4 Fuel .....	Excellent

Key: Excellent – No observable effect on grease  
 Good – Grease slightly soft, poor adhesion  
 Fair – Grease very soft, cracked, poor adhesion

PHYSICAL AND HEALTH HAZARD INFORMATION. THE MATERIAL SAFETY DATA SHEET IS AVAILABLE FROM YOUR DOW CORNING REPRESENTATIVE, OR DISTRIBUTOR, OR BY WRITING TO DOW CORNING CUSTOMER SERVICE, OR BY CALLING (517) 496-6000.

**LIMITED WARRANTY – PLEASE READ CAREFULLY**

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