LOCTITE® Dielectric Grease

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PRODUCT DESCRIPTION

LOCTITE® Dielectric Grease provides the following product characteristics:

Technology	Silicone grease
Chemical Type	Silicone dielectric compound
Appearance	Translucent paste[LMS]
Viscosity	Thick paste
Cure	Non-curing
Application	Lubrication
Specific Benefit	• Corrosion resistant • Improves connections

LOCTITE® Dielectric Grease is a silicone dielectric compound that facilitates and improves tune-ups. The compound prevents voltage leakage around any electrical connector thereby insuring a strong spark in high energy ignition systems. It is also an excellent lubricant on rubber, plastic and ceramic surfaces, and it also has good high temperature properties, thus preventing fusing of spark plug boots to the spark plug itself. Typical applications include spark plug boots, distributor cap nipples, battery terminals, ignition coil connectors, and trailer electrical connectors. This product is typically used in applications with an operating range of -55 °C to 204 °C.

TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.03
Flash Point - See MSDS	
Penetration, ISO 2137, 1/10mm	200 to 300[LMS]

TYPICAL PROPERTIES OF CURED MATERIAL

Electrical Properties:

Dielectric Breakdown Strength, IEC 60243-1, kV/mm	19.8
Dielectric Constant / Dissipation Factor, IEC 60250:	
1kHz	3.0 / 0.007
Volume Resistivity, IEC 60093, Ω·cm	2.6×10^{15}

GENERAL INFORMATION

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

Directions for use:

1. **For spark plug boots**
    1. Make sure ignition system is off.
    2. Remove heavy grease, dirt or oil with a clean rag.
    3. Coat inside of spark plug boot with a thin layer of grease.
    4. Coat ceramic part of plug.
    5. Snap boot onto plug. Make sure fit is tight.
2. **For connectors and battery terminals**
    1. Make sure ignition system is off.
    2. Clean surfaces with appropriate cleaner such as Loctite® Pro Strength Parts Cleaner or Loctite® Battery Cleaner.
    3. Coat both parts with grease.
    4. Reassemble.

Loctite Material Specification[LMS]

LMS dated December 07, 1999. Test reports for each batch are available for the indicated properties. LMS test reports include selected QC test parameters considered appropriate to specifications for customer use. Additionally, comprehensive controls are in place to assure product quality and consistency. Special customer specification requirements may be coordinated through Henkel Quality.

Storage

Store product in the unopened container in a dry location. Storage information may be indicated on the product container labeling.

Optimal Storage: 8 °C to 21 °C. Storage below 8 °C or greater than 28 °C can adversely affect product properties. Material removed from containers may be contaminated during use. Do not return product to the original container. Henkel Corporation cannot assume responsibility for product which has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact your local Technical Service Center or Customer Service Representative.

Conversions

(°C x 1.8) + 32 = °F
kV/mm x 25.4 = V/mil
mm / 25.4 = inches
µm / 25.4 = mil
N x 0.225 = lb
N/mm x 5.71 = lb/in
N/mm^2 x 145 = psi
MPa x 145 = psi
N·m x 8.851 = lb·in
N·m x 0.738 = lb·ft
N·mm x 0.142 = oz·in
mPa·s = cP

Note

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Reference 0.1