V-641

Anaerobic Retaining Compound

PRODUCT DESCRIPTION

Retaining Compound Anaerobic Adhesives are one-component anaerobic adhesives designed to secure cylindrical metal assemblies such as bearings on shafts, bushings, sleeves, housings, and keyways. They prevent loosening, corrosion and leakage caused by shock and vibration.

KEY FEATURES

Bearing Mount Retaining Compound V-641 is a medium strength, low viscosity retaining compound, for bonding cylindrical parts, with controlled strength to allow disassembly for servicing and bearing re-use. It is also designed to augment the strength of press fit assemblies.
The following technical information and data should be considered representative or typical only and should not be used for specification purposes.

TYPICAL UNCURED PHYSICAL PROPERTIES

Property	Values	Notes
Color	Yellow	
Chemistry	Dimethacrylate cP	
Viscosity	400 to 800 cP	Brookfield Viscometer spindle #2 at 20 rpm
Fixture Time	25min (avg time) (<30min range)	Reference ISO 10964

TYPICAL CURED CHARACTERISTICS

Property	Values		Test Condition
Temperature Range	-54 to 149 °C	-65 to 300 °F	Constant
Compressive Shear	2950 lb/in²		

TYPICAL PERFORMANCE CHARACTERISTICS

Property	Values	Notes
Breakaway Torque	90in-lb - typical value (60 - 130in-lb range)	Reference ISO 10964. To convert to (N.m) divide (in.lb) by 8.85t.
Prevailing Torque	90in-lb - typical value (70 - 105in-lb range)	Reference ISO 10964. To convert to (N.m) divide (in.lb) by 8.85t.

HANDLING/APPLICATION INFORMATION

Retaining Compounds Anaerobic Adhesives are not recommended for use on most plastics due to potential cracking of plastic parts. Also, they are not recommended for use in piping systems that contain pure oxygen or an oxygen-rich environment, chlorine, or strong oxidizing substances.
For Assembly:
Ensure parts are clean, dry and free from oil, grease and dirt. For best results, clean and dry parts with solvent (Activator can also be used on inactive surfaces to accelerate the cure on active surfaces.)
If not sure of surface type, always use activator. Refer to Material surface Activity and Cure Speed section for more information.
Avoid touching the metal surfaces with the bottle tip since the metal ions may react with the adhesive upon contact and eventually may clog the bottle tip
Apply a bead of adhesive onto the shaft and inside the collar where the contact area will finally be assembled. For larger parts use more adhesive. Assemble parts and rotate to spread adhesive evenly around contact area
Allow assemblies to set for sufficient time so that handling strength or full cure will occur before further processing or testing.

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STORAGE CONDITIONS

Keep the adhesive in a cool, dry place away from direct sunlight. Under such conditions shelf life at room temperature will be 12 months. Refrigeration to 5°C gives optimum storage stability.

Shelf Life: 12 months from date of despatch when stored in the original carton at 21°C.

Precautionary Information: Refer to product label and material Safety Data Sheet for health and safety information before using the product.

PRODUCT USE

All statements, technical information and recommendations contained in this document are based upon tests or experience that believes are reliable. However, many factors beyond control can affect the use and performance of a product in a particular application, including the conditions under which the product is used and the time and environmental conditions in which the product is expected to perform. Since these factors are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable the user's method or application.

NOTE

Product Selection and Use: Many factors beyond control and uniquely within user's knowledge and control can affect the use and performance of a product in a particular application. As a result, customer is solely responsible for evaluating the product and determining whether it is appropriate and suitable for customer's application, including conducting a workplace hazard assessment and reviewing all applicable regulations and standards (e.g., OSHA, ANSI, etc.). Failure to properly evaluate, select, and use a product and appropriate safety products, or to meet all applicable safety regulations, may result in injury, sickness, death, and/or harm to property.
Limitation of Liability: Except for the limited remedy stated above, and except to the extent prohibited by law, will not be liable for any loss or damage arising from or related to the product, whether direct, indirect, special, incidental, or consequential (including, but not limited to, lost profits or business opportunity), regardless of the legal or equitable theory asserted, including, but not limited to, warranty, contract, negligence, or strict liability.