



LOCTITE® 672™

February 2008

PRODUCT DESCRIPTION

LOCTITE® 672™ provides the following product characteristics:

Technology	Acrylic
Chemical Type	Methacrylate ester
Appearance (uncured)	Yellow fluorescent liquid ^{LMS}
Components	One component - requires no mixing
Viscosity	Low
Cure	Anaerobic
Application	Retaining
Strength	Medium

LOCTITE® 672™ is designed for the bonding of cylindrical fitting parts, particularly where disassembly is required for service operations. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. Typical applications include retention of bearings onto shafts and into housings.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.07
Flash Point - See MSDS	
Viscosity, Falling Ball 'C', , mPa·s (cP)	100 to 140 ^{LMS}

TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

Cured for 24 hours @ 22 °C

Compressive Shear Strength, ISO 10123:

Steel pins and collars	N/mm ²	10
	(psi)	(1,450)

Breakaway Torque, ISO 10964:

M10 black oxide bolts and mild steel nuts	N·m	8 to 22 ^{LMS}
	(lb.in.)	(70.8 to 194.7)

Prevail Torque, ISO 10964:

M10 black oxide bolts and mild steel nuts	N·m	3 to 14 ^{LMS}
	(lb.in.)	(26.5 to 123.9)

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).

Where aqueous washing systems are used to clean the surfaces before bonding, it is important to check for compatibility of the washing solution with the adhesive. In some cases these aqueous washes can affect the cure and performance of the adhesive.

This product is not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

Directions for use

For Assembly

1. For best results, clean all surfaces (external and internal) with a LOCTITE® cleaning solvent and allow to dry.
2. **For Slip Fitted Assemblies**, apply adhesive around the leading edge of the pin and the inside of the collar and use a rotating motion during assembly to ensure good coverage.
3. **For Press Fitted Assemblies**, apply adhesive thoroughly to both bond surfaces and assemble at high press on rates.
4. **For Shrink Fitted Assemblies** the adhesive should be coated onto the pin, the collar should then be heated to create sufficient clearance for free assembly.
5. Parts should not be disturbed until sufficient handling strength is achieved.

For Disassembly

1. Apply localized heat to the assembly to approximately 250 °C. Disassemble while hot.

For Cleanup

1. Cured product can be removed with a combination of soaking in a Loctite solvent and mechanical abrasion such as a wire brush.

Loctite Material Specification^{LMS}

LMS dated August 23, 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

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$
kV/mm \times 25.4 = V/mil
mm / 25.4 = inches
 $\mu\text{m} / 25.4 = \text{mil}$
N \times 0.225 = lb
N/mm \times 5.71 = lb/in
N/mm² \times 145 = psi
MPa \times 145 = psi
N·m \times 8.851 = lb·in
N·m \times 0.738 = lb·ft
N·mm \times 0.142 = oz·in
mPa·s = cP

Note

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Reference 1.1