

PRODUCT DESCRIPTION

LOCTITE[®] 2432[™] provides the following product characteristics:

Technology	Acrylic
Chemical Type	Dimethacrylate ester
Appearance (uncured)	Blue liquid ^{LMS}
Fluorescence	Positive under UV light ^{LMS}
Components	One component - requires no mixing
Viscosity	Medium, thixotropic
Cure	Anaerobic
Secondary Cure	Activator
Application	Threadlocking
Strength	Medium

LOCTITE[®] 2432[™] is designed for the locking and sealing of threaded fasteners which require normal disassembly with standard hand tools. Particularly suitable for use on stainless steel without the need for surface activation. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. This product has a low halogen and sulphur content and was especially developed for use on sensitive metals, like titanium, used in the nuclear industry. The thixotropic nature of LOCTITE[®] 2432[™] reduces the migration of liquid product after application to the substrate.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.08
Flash Point - See SDS	
Viscosity @ 25°C, mPa·s (cP):	
Haake cone & plate:	
PK100, PK1, 2° @ 129 S-1	150 to 450 ^{LMS}

Chemical Purity

Chlorine & Fluorine Content, ppm	≤200 ^{LMS}
Sulfur Content, ppm	≤200 ^{LMS}

TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

After 24 hours @ 22 °C

Breakaway Torque, ISO 10964:

M10 black oxide steel nuts and bolts	N·m (lb.in)	17 (150)
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Prevail Torque, ISO 10964:

M10 black oxide steel nuts and bolts	N·m (lb.in)	6 (53)
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Compressive Shear Strength, ISO 10123:

Steel pins and collars	N/mm ² (psi)	≥6 ^{LMS} (≥870)
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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 Safety Data Sheet (SDS).

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

- For best results, clean all surfaces (external and internal) with a LOCTITE[®] cleaning solvent and allow to dry.
- If the material is an inactive metal or the cure speed is too slow, spray with LOCTITE[®] SF 7471[™] or LOCTITE[®] SF 7649[™] and allow to dry.
- Shake the product thoroughly before use.
- To prevent the product from clogging in the nozzle, do not allow the tip to touch metal surfaces during application.
- For Thru Holes**, apply several drops of the product onto the bolt at the nut engagement area.
- For Blind Holes**, apply several drops of the product down the internal threads to the bottom of the hole.
- For Sealing Applications**, apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free. For bigger threads and voids, adjust product amount accordingly and apply a 360° bead of product on the female threads also.
- Assemble and tighten as required.

For Disassembly

- Remove with standard hand tools.
- Where hand tools do not work because of excessive engagement length or large diameters (over 1"), apply localized heat to approximately 250 °C (480F). Disassemble while hot.

Clean-up

- 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 June 19, 1996. 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 Henkel representative.

Conversions

$(^{\circ}\text{C} \times 1.8) + 32 = ^{\circ}\text{F}$

$\text{kV/mm} \times 25.4 = \text{V/mil}$

$\text{mm} / 25.4 = \text{inches}$

$\mu\text{m} / 25.4 = \text{mil}$

$\text{N} \times 0.225 = \text{lb}$

$\text{N/mm} \times 5.71 = \text{lb/in}$

$\text{N/mm}^2 \times 145 = \text{psi}$

$\text{MPa} \times 145 = \text{psi}$

$\text{N}\cdot\text{m} \times 8.851 = \text{lb}\cdot\text{in}$

$\text{N}\cdot\text{m} \times 0.738 = \text{lb}\cdot\text{ft}$

$\text{N}\cdot\text{mm} \times 0.142 = \text{oz}\cdot\text{in}$

$\text{mPa}\cdot\text{s} = \text{cP}$

Disclaimer

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Reference 1.4