LOCTITE® Thread Sealant for Oxygen Systems™

October 2009

PRODUCT DESCRIPTION

LOCTITE® Thread Sealant for Oxygen Systems™ provides the following product characteristics:

Technology	Aqueous PTFE Dispersion
Chemical Type	PTFE dispersion
Appearance (uncured)	Uniform White and free of specs or striations[LMS]
Components	One component - requires no mixing
Viscosity	Paste
Cure	Non-curing
Application	Thread sealing

LOCTITE® Thread Sealant for Oxygen Systems™ is designed for sealing most metal fittings . This product seals through destabilization of suspended PTFE particles caused by the shear induced when assembling threaded connections. LOCTITE® Thread Sealant for Oxygen Systems™ seals instantly.

BAM Testing:

LOCTITE® Thread Sealant for Oxygen Systems™ is suitable regarding technical safety for use in liquid and gaseous oxygen systems at temperatures below 60°C and pressures below 30 bar(435 psi) as a result of BAM testing on a sample of this product. (date of test report: 2008-09-08)

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C	1.27
Flash Point - See MSDS	
Instant Sealability @ 23 °C, 30 Bar(435psi):	
brass pipe tees and brass plugs	Pass
3/8 stainless steel tees and plugs	Pass

GENERAL INFORMATION

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.

Directions for use:

For Assembly

1. Clean all surfaces (external and internal) in accordance with the applicable standard(s) for assemblies.
2. Apply a 360° bead of product to the leading threads of the male fitting, leaving the first thread free. Force the material into the threads to thoroughly fill the voids.
3. Using compliant practices, assemble and wrench tighten fittings in accordance with manufacturers recommendations.
4. Properly tightened fittings will seal instantly .
5. All fittings should be suitably determined to be free of leaks using inert gas before being placed into service.

For Disassembly

1. Remove with standard hand tools.

Loctite Material Specification[LMS]

LMS dated September 03, 2009. 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.
NOTE: Do not freeze product. 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/mm² 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

The data contained herein are furnished for information only and are believed to be reliable. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user's responsibility to determine suitability for the user's purpose of any production methods mentioned herein and to adopt such precautions as may be advisable for the protection of property and of persons against any hazards that may be involved in the handling and use thereof. In light of the foregoing, **Henkel Corporation specifically disclaims all warranties expressed or implied, including warranties of merchantability or fitness for a particular purpose, arising from sale or use of Henkel Corporation's products. Henkel Corporation specifically disclaims any liability for consequential or incidental damages of any kind, including lost profits.** The discussion herein of various processes or compositions is not to be interpreted as representation that they are free from domination of patents owned by others or as a license under any Henkel Corporation patents that may cover such processes or compositions. We recommend that each prospective user test his proposed application before repetitive use, using this data as a guide. This product may be covered by one or more United States or foreign patents or patent applications.

Trademark usage

Except as otherwise noted, all trademarks in this document are trademarks of Henkel Corporation in the U.S. and elsewhere. ® denotes a trademark registered in the U.S. Patent and Trademark Office.

Reference 0.1