

Pipe thread sealing tape

Art. No. 114124

Type No. 258.77



Exemplary illustration

Universal, non-curing thread sealant in the form of impregnated nylon yarn.
All combinations of metal and plastic threads.

- Drinking and waste water
- Gas, compressed air and industrial oils
- Aqueous and non-aqueous fluids

Clean processing, adjustable, non-curing, odourless, good chemical resistance.
DVGW approval acc. to DIN 751-1 and DIN 30660, DV-5142 AU 0166 test mark.
KTW approval for hot water up to 95°C and pressures up to 16 bar.

Technical data

Operating temperature	-55 to 150 °C
Contents	160 m

Commercial data

Customs tariff number	59119099
Country of origin	CZ
eCl@ss 5.1.4	23079090
eCl@ss 9.0	23071603
UNSPSC_Code_v190501	31201701
UNSPSC_CodeDesc_v190501	Thread sealant



Technical Data Sheet

LOCTITE® 55™

August 2016

PRODUCT DESCRIPTION

LOCTITE® 55™ provides the following product characteristics:

Technology	Coated multifilament thread
Chemical Type	Polyamide thread with inert proprietary paste
Appearance	White colored, coated cord
Cure	Not applicable
Application	Thread sealing

LOCTITE® 55™ is a general purpose, threaded pipe and fitting sealant which is wound from the dispensing package onto the threads of the pipe. It is supplied in containers, which serve for both storage and dispensing purposes. Recommended for sealing metal and plastic tapered pipe threads and fittings 4" NPT (National Pipe Thread) for use in industrial applications in aqueous and non-aqueous fluids. Particularly suitable in threaded assembly applications that require immediate use and may undergo small readjustments before use. This product is typically used in applications up to 149 °C.

NSF International

Certified to ANSI/NSF Standard 61 for use in commercial and residential potable water systems not exceeding 82° C. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

EN 751-2

Sealing materials for metallic threaded joints in contact with 1st, 2nd, and 3rd family gases and hot water; Part 2: Non-hardening jointing compounds. LOCTITE® 55™ has been tested and conforms to EN 751-2 for a class ARp compound and carries the **DVGW** approval.

WRC and BGA KTW approval

Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water. LOCTITE® 55™ has been tested and has potable water approval to BS 6920 and also meets the specifications of the **WRC** and **BGA KTW** for both cold and hot potable water.

Approved by the Australian Gas Association Certificate number 6007 Class III rated working pressure 2000 kPa, working temperature -10 to 150°C. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

TYPICAL PROPERTIES

Specific Gravity @ 25°C	1.25
Flash Point - See SDS	
Coating Weight, g/m	0.54 to 0.74
Spool Weight, g:	
12 meter spool	7.0 to 10.4
50 meter spool	27.3 to 39.6
100 meter spool	54.0 to 80.7
160 meter spool	86.4 to 125.1
Spool Length, m:	
12 meter spool	12.5 to 14.0
50 meter spool	50.5 to 53.5
100 meter spool	101.0 to 109.0
160 meter spool	161.0 to 169.0

Lubricity, ASTM D5648, K value:

3/8 x 16 fastener, using LOCTITE® 55™	0.15
3/8 x 16 steel fastener (degreased)	0.2
3/8 x 16 phosphate and oil nuts and bolts	0.16

(In critical applications, it is necessary to determine the K values independently. Henkel corporation makes no warranty of specific performance on any individual fastener)

TYPICAL PERFORMANCE OF APPLIED MATERIAL

Approval tests according to EN 751-2 for class ARp compound:

Soundness Test, section 7.2.1.2	No leaks
Soundness Test after 45° joint adjustment, section 7.2.1.3	No leaks
Resistance to gas condensates, section 7.2.1.4	No leaks
Hot water resistance test, section 7.2.1.5	No leaks
Temperature cycling test, section 7.2.1.6	No leaks
Vibration test, section 7.2.1.7	No leaks
Compatibility with foam forming leak tester, section 7.2.2	Pass
Test of hardening and dismantling, section 7.2.3	Pass

Pressure Resistance

LOCTITE® 55™ was successfully tested for pressure resistance and sealability to 69 MPa. 3/8 NPT steel pipe tees and plugs were assembled and pre-torqued to 27 N·m prior to testing at 69 MPa hydraulic pressure @ 23 °C according to ASTM D 1599.

TYPICAL ENVIRONMENTAL RESISTANCE

LOCTITE® 55™ has resistance to most common industrial fluids and gasses.

Steam Compatibility

LOCTITE® 55™ was successfully tested for steam compatibility to 0.17 MPa. 1.5" NPT were assembled and tested at 0.17 MPa pressure @ 130 °C for 1,000 hours.

For the most direct access to local sales and technical support visit: www.henkel.com/industrial



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).

Directions for use

- Clean parts with a wire brush prior to application of product.
- Hold the end of the Pipe Sealing Cord against the male nipple with one finger approximately two threads away from the end.
- Wind the fiber onto the pipe threads in the same direction of the thread helix starting from the end of the pipe. For optimum performance, the grooves of the threads should be filled without completely masking the pitches of the thread.
NOTE: It is not necessary to follow the valley of the thread.
- CAUTION:** Do not over-apply the Pipe Sealing Cord. Excessive material tends to be pushed off as fittings are assembled, and it also becomes mechanically more difficult to complete the engagement.
- Cut the required length off with the integrated cutting tool and smooth the loose end onto the pitches of the pipe thread.
- LOCTITE® 55™ can be adjusted up to 45° after tightening.

Usage/Application Information

The following is a guideline for how much LOCTITE® 55™ to use per pipe diameter.

Pipe Diameter	Number of turns (wraps)	
	Metal	Plastic
½ "	6 to 8	12 to 15
¾ "	7 to 9	15 to 25
1 "	8 to 12	20 to 30
1½ "	10 to 15	25 to 35
2 "	15 to 25	-----
2½ "	20 to 30	-----
3 "	25 to 35	-----
3½ "	30 to 40	-----
4 "	35 to 45	-----

LOCTITE® 55™ provides sealing against cold water and compressed air on plastic pipe threads when applied properly in a sufficient amount.

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.

Product Specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Approval and Certificate

Please contact a Henkel representative for related approval or certificate of this product.

Data Ranges

The data contained herein may be reported as a typical value. Values are based on actual test data and are verified on a periodic basis.

Temperature/Humidity Ranges: 23 °C / 50% RH = 23±2 °C / 50±5% RH

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·ft
- N·m x 0.738 = lb·ft
- N·mm x 0.142 = oz·in
- mPa·s = cP

Disclaimer

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Belgium NV, Henkel Electronic Materials NV, Henkel Nederland BV, Henkel Technologies France SAS and Henkel France SA please additionally note the following:

In case Henkel would be nevertheless held liable, on whatever legal ground, Henkel's liability will in no event exceed the amount of the concerned delivery.

In case products are delivered by Henkel Colombiana, S.A.S. the following disclaimer is applicable:

The information provided in this Technical Data Sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. Henkel is not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product.

Any liability in respect of the information in the Technical Data Sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

In case products are delivered by Henkel Corporation or Henkel Canada, Inc. the following disclaimer is applicable:

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

For the most direct access to local sales and technical support visit: www.henkel.com/industrial

