

LOCTITE[®] 55[™]

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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 ^{LMS}
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 up to 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.

TYPICAL PROPERTIES

Specific Gravity @ 25 °C	1.25
Flash Point - See SDS	
Coating Weight, g/m	0.54 to 0.74 ^{LMS}
Spool Weight, g:	
12 meter spool	7.0 to 10.4 ^{LMS}
50 meter spool	27.3 to 39.6 ^{LMS}
100 meter spool	54.0 to 80.7 ^{LMS}
150 meter spool	81.0 to 118.4 ^{LMS}
Spool Length, m:	
12 meter spool	12.5 to 14.0 ^{LMS}
50 meter spool	50.5 to 53.5 ^{LMS}
100 meter spool	101.0 to 109.0 ^{LMS}
150 meter spool	151.0 to 159.0 ^{LMS}
Lubricity, ASTM D5648, K value:	
3/8 x 16 fastener, using LOCTITE [®] 55 [™]	0.15
3/8 x 16 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. 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.