

iQparts
IQ-PARTS-SHOP.COM



**SPECS &
INFORMATION**

LOCTITE® SI 5331™

Known as LOCTITE® 5331
June 2022

PRODUCT DESCRIPTION

LOCTITE® SI 5331™ provides the following product characteristics:

Technology	Silicone
Chemical Type	Acetoxy silicone
Appearance (uncured)	White paste
Components	One component - requires no mixing
Viscosity	Medium
Cure	Humidity
Application	Thread sealing
Strength	Low

LOCTITE® SI 5331™ is recommended for use on plastic pipe threaded fittings carrying hot or cold water. This product cures at ambient temperatures under the influence of atmospheric moisture to form a low strength flexible seal against hot and cold water.

NSF International

Registered to NSF Category P1 for use as a sealant where there is no possibility of food contact in and around food processing areas. **Note:** This is a regional approval. Please contact your local Technical Service Center for more information and clarification.

TYPICAL PROPERTIES OF UNCURED MATERIAL

Specific Gravity @ 25 °C 1.1

Flash Point - See SDS

Viscosity, Brookfield - RVT, 25°C, mPa·s (cP):
Spindle 7., speed 10 rpm 50,000

Instant Sealing Capability

The cure speed of this product is independent of substrates but requires atmospheric humidity 40% minimum to develop full sealing capability (0.3 MPa) within 12 hours. Instant seal capability is 0.05 MPa water pressure as measured on 25.4 mm fittings. Low temperatures do not reduce the effectiveness of this sealant unless the atmospheric moisture is also low.

TYPICAL CURING PERFORMANCE

Open Time

Open Time @ 25°C, minutes 5

TYPICAL PERFORMANCE OF CURED MATERIAL

Adhesive Properties

After 72 hours @ 22°C

Breakaway Torque, ISO 10964:
M10 steel nuts and bolts N·m 1.5

	(lb.in)	(13.3)
Prevail Torque, ISO 10964:		
M10 steel nuts and bolts	N·m	0.5
	(lb.in)	(4.42)
Breakloose Torque, ISO 10964, Pre-torqued to 5 N·m:		
M10 steel nuts and bolts	N·m	4.5
	(lb.in)	(39.8)
Max. Prevail Torque, ISO 10964, Pre-torqued to 5 N·m:		
M10 steel nuts and bolts	N·m	1.0
	(lb.in)	(8.85)

TYPICAL ENVIRONMENTAL RESISTANCE

The low strength of this sealant is maintained at temperatures up to 150 °C

Sealing capability is maintained up to 0.3 MPa in water @ 90 °C. Tests on steel fittings using water/glycol maintained seals cycling 20 to 90 °C for 12 months without leaking.

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

1. Apply the product to the threaded parts (these may be to, "as received" parts or parts cleaned with a damp cloth or paper towel).
2. Product should be applied to both male and female threads and then worked into the threads to ensure good wetting.
3. For potable water systems, allow product to cure for 96 hours at 20 to 23°C prior to use.

Not for product specifications

The technical data contained herein are intended as reference only. Please contact your local quality department for assistance and recommendations on specifications for this product.

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.



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, 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 Corporation, or Henkel Canada Corporation, 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 1.7





iq
parts
IQ-PARTS-SHOP.COM

info@iq-parts.nl
Harsweg 34A
2461 EZ Ter Aar
T +31 252 624 126
The Netherlands