

# HYDROGEN READY THREAD SEALING SOLUTIONS

FOR THE SAFE AND RELIABLE PREVENTION  
OF HYDROGEN GAS LEAKS



Rely on LOCTITE® hydrogen ready thread sealants to ensure a safe and reliable seal against hydrogen gas leaks while avoiding the complexity and costs of other sealing methods such as seal welding and cone & thread fittings. Engineered to withstand the challenges of hydrogen environments, LOCTITE hydrogen ready thread sealing solutions meet the performance requirements of KIWA GASTEC QA AR 214 for admixtures up to and including 100% hydrogen gas – certifications are available in select countries.

LOCTITE hydrogen ready thread sealants are suitable for use on both NPT- and BSPT-style threaded components made of all metals, including tough-to-seal stainless steel. The easy-to-apply thread sealants allow for adjustment during assembly and do not shred or tear like tapes, nor shrink like pipe dopes.

## KEY FEATURES & BENEFITS



### SAFETY & RELIABILITY

Specially formulated to enhance safety by eliminating hydrogen gas leaks and ensure reliable long-term equipment performance.



### COMPATIBILITY

LOCTITE thread sealants are suitable for use on all metals and are not adversely affected by hydrogen.



### SYSTEM EFFICIENCY

Prevents leaks and vibrational loosening, enhancing overall system efficiency while reducing maintenance requirements and operational downtime.

# HYDROGEN READY THREAD SEALING SOLUTIONS

**H<sub>2</sub>ERE TO PERFORM UNDER PRESSURE**



The following products meet the performance requirements of KIWA GASTEC QA AR 214 for admixtures up to and including 100% hydrogen gas. Certifications are available in select countries.

Thread sealing solution	Description
<b>LOCTITE 55</b>	White, non-curing thread sealing cord provides immediate full-pressure sealing. Allows for reliable readjustments without leakage. Ideal for BSPT and NPT pipe threads.
<b>LOCTITE 567</b>	White, high-viscosity anaerobic curing thread sealant paste. Provides instant low-pressure sealing. Seals and locks metal threaded pipes and fittings, but allows for easy disassembly. Ideal for NPT pipe threads.
<b>LOCTITE 577</b>	Yellow, high-viscosity anaerobic curing thread sealant paste. Provides instant low-pressure sealing. Seals and locks metal threaded pipes and fittings, but allows for easy disassembly. Ideal for BSPT and NPT pipe threads.
<b>LOCTITE 638</b>	Green, medium-viscosity anaerobic curing adhesive/sealant with high shear strength. Typically used to retain bearings on shafts, but also ideal for thread sealing and locking applications in high-pressure and/or extreme environments. Ideal for BSPT and NPT pipe threads.

### APPLICATION AREAS

Our thread sealing solutions are suitable for use on devices and components throughout the hydrogen value chain, including:

- Valves
- Compressors
- Pressure sensors
- Electrolyzers
- Storage systems
- Pumps
- Fueling stations
- Boilers
- Fuel cells
- Pipeline connections
- Meters
- Appliances

### WHY CHOOSE LOCTITE FOR YOUR HYDROGEN SYSTEMS?

- Proven reliability through testing and approvals
- Comprehensive technical support and expertise
- Commitment to advancing hydrogen technology with innovative solutions

### EXPLORE ADDITIONAL LOCTITE SOLUTIONS FOR YOUR HYDROGEN DEVICES

LOCTITE sealing, locking, coating and bonding solutions are available for a wide range of needs throughout the hydrogen ecosystem, including threadlockers, flange sealants, retaining compounds, structural adhesives and specialty coatings.

## CONTACT

### Henkel Ltd

Wood lane end  
Hemel Hempstead  
HP2 4RQ  
Tel.: (+44) 1442 278 100

[www.henkel-adhesives.co.uk](http://www.henkel-adhesives.co.uk)  
[www.henkel.co.uk](http://www.henkel.co.uk)

The description of the possible fields of use of our products as well as the technical data and values only have a general character and do not mean that a certain product can be used under all conditions in the respective field of use. In this respect, the stated field of use is not a binding specification or usage provision. Due to the great number of environment variables and their influences (e.g. temperature, test specimens, size, interaction with substrates, influence of machines, or the like) you as our customer must check whether the product is suitable for your specific field of use. We will be pleased to assist and advise you in this respect.

Except as otherwise noted, all marks used above are trademarks and/or registered trademarks of Henkel and its affiliates in the U.S., Germany and elsewhere.

© 9.2024 Henkel AG & Co. KGaA. All rights reserved

