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_2ERE 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
LOCTITE 55	White, non-curing thread sealing cord provides immediate full-pressure sealing. Allows for reliable readjustments without leakage. Ideal for BSPT and NPT pipe threads.
LOCTITE 567	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.
LOCTITE 577	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.
LOCTITE 570	Silver-brown, high-viscosity anaerobic curing thread sealant paste. Formulated to be slow-curing and provide low-torque strength for easy disassembly. Ideal for BSPT and NPT pipe threads.
LOCTITE 638	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 support and expertise backed up with line surveys along with technical training for R&D, production and maintenance teams.
- Commitment to advancing hydrogen technology with innovative solutions.
- Assembly Automation solutions from simple handheld devices to fully automated systems which can be easily integrated into your manufacturing process.

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.

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