Technical Data Sheet

WL70 Studlock

September 2023

PRODUCT DESCRIPTION

WL70 Studlock is a high strength threadlocker that prevents loosening against vibration assemblies (pumps, gearboxes, or presses) when sealing bolts, nuts, and studs. It works on all metals, including passive substrates such as stainless steel, aluminium, and plated surfaces. Can be disassembled by heating to 300°C.

WL70 is part of the Bondloc "Safer Product" range of anaerobic adhesives. The range provides excellent and proven performance with no safety or risk phrases and no hazardous pictograms on the product label.

THREADLOCKERS

Bondloc threadlockers are single-component liquids that cure at room temperature to a hard, solid thermoset plastic when applied between steel, aluminium, brass, and most other metal surfaces. They cure with the absence of air and when in contact with metal ions, the adhesive completely fills the gaps between mating threads to lock threads and joints. This prevents unwanted movement, loosening, leaks and corrosion.

ANAEROBIC KEY FEATURES

- Single-component – clean and easy to apply
- Prevent unwanted loosening, leaks, and corrosion
- Reduces costs over mechanical fittings
- Resists vibration
- Can be used on all sizes of fasteners – reduces inventory costs
- Seals threads and increases friction

TECHNICAL FEATURES

Base technology	Dimethacrylate ester
Colour	Green (UV Positive)
Cure	Anaerobic
Viscosity Brookfield Sp2 @20rpm@25°C	350-550 cps
Cure speed without Activator	10 mins @ 22°C
Cure speed with Activator	5 mins @ 22°C
Max Thread Size	M20
Shelf Life	24 months @ 22°C
Specific Gravity ASTM D1475-13 (2020)	1.06
Temperature Range	-55°C to +180°C

TEST PERFORMANCE

Full Cure Time	24 hours @ 22°C
Strength – ISO 10964 Breakaway Prevailing	Unseated ≥20Nm ≥19Nm
Strength – ISO 10964 Breakloose Prevailing	Pre-torqued 25 Nm 20 Nm

TEST CRITERIA

The performance data reported below were measured according to ISO 10964 using M10 mild steel bolts and cured 24 hours at 22°C (71.6°F) before testing.

PACKAGING FORMAT

Bottles……50ml, 250ml

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INSTRUCTIONS FOR USE

- Clean surfaces to be bonded with B7063 Solvent Cleaner and allow to dry.
- Apply adhesive to the threads, apply sufficient adhesive to fill the voids and then assemble and tighten as required.
- When the cure speed is slow use B7649 Anaerobic activator for increased cure and set times.

LIMITATIONS

- 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. Material removed from containers may be contaminated during use. Do not return product to the original container. Bondloc UK Ltd will not assume responsibility for product that has been contaminated or stored under conditions other than those previously indicated. If additional information is required, please contact our office, and report the problem
- Anaerobic products are not normally recommended for use on plastics (particularly thermoplastic materials where stress cracking of the plastic could result). Users are recommended to confirm compatibility of the product with such substrates.

STORAGE

Store product in the unopened container in a dry area out of direct sunlight. Storage below 7°C or greater than 28°C can adversely affect product performance. If stored properly, this product has a shelf life of 24 months.

HEALTH & SAFETY

This technical information sheet does not constitute a Safety Data Sheet (SDS). Before using this product ensure you have read and fully understood this products SDS.

PRODUCT DISCLAIMER

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