

TECHNICAL DATASHEET

STALOC 5S42

Hydraulic sealant, medium-strength



PRODUCT DESCRIPTION

Medium-strength, anaerobic adhesive and sealant used to seal hydraulic and pneumatic threads, which need to be ready for disassembly with tools. Sealing of threads to a size of R 3/4", up to bursting pressure. Can be used as a replacement for PTFE sealing strips when sealing pipes for gas, water, LPG, hydrocarbons, oils and other chemicals.

High resistance against corrosion, vibration, impact and temperatures up to 150 °C.

Certified according to DVGW and EN 751-1.

Cures quickly in anaerobic environment, even on passive materials and stainless steel.

PHYSICAL PROPERTIES (WHEN LIQUID)

| ATTRIBUTE | UNIT | SPECIFICATION |
|----------------------|------|---|
| colour | | brown / fluorescent under blue light |
| viscosity at +25°C | mPas | 500-600 |
| max. gap | mm | 0.15 mm |
| max. thread diameter | | M20 - R 3/4" |
| density at +25°C | g/ml | 1.05 g/ml |
| flashing point | °C | > 100°C |
| chemical basis | | dimethacrylic ester |
| shelf life at +25°C | | min. 1 year |

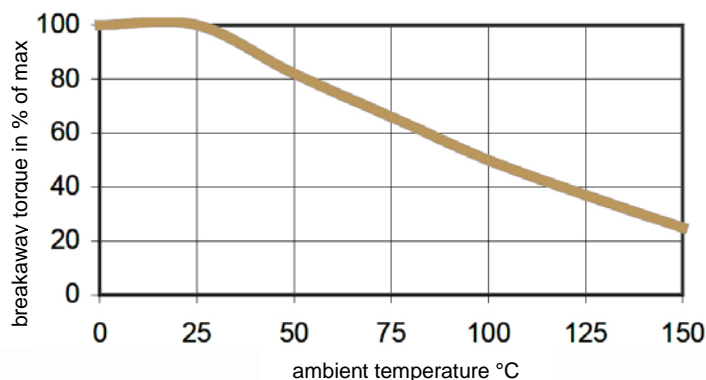
PHYSICAL PROPERTIES (WHEN CURED)

Tested with screw M10 x 20 - quality 8.8 galvanized - nut 0.8d (without preload)

| ATTRIBUTE | UNIT | SPECIFICATION |
|------------------------------|-------------------|--------------------------|
| finger tight after | min | 10 - 20 min |
| functional cure time | h | 1 - 3 h |
| final cure time | h | 3 - 6 h |
| breakaway torque (ISO 10964) | Nm | ~ 14-20 Nm |
| run-down torque (ISO 10964) | Nm | ~ 16-22 Nm |
| shear strength (ISO 10123) | N/mm ² | ~ 8-12 N/mm ² |
| temperature resistance | °C | - 55°C to +150°C |

TEMPERATURE RESISTANCE OF THE HYDRAULIC SEALANT

Tested with screw M10 x 20 - quality 8.8 galvanized - nut 0.8d (5Nm preload) – 25°C, according to ISO 10964



CHEMICAL RESISTANCE

after 24 hours of polymerisation

| substance | temperature [°C] | resistance | | |
|--------------------|------------------|-------------|---------------|---------------|
| | | after 100 h | after 1,000 h | after 5,000 h |
| Motor oil | 125 | excellent | excellent | excellent |
| Gear oil | 125 | excellent | excellent | excellent |
| Gasoline | 25 | excellent | excellent | excellent |
| Water / Glykol 50% | 87 | good | good | good |
| Brake fluid | 25 | excellent | excellent | excellent |

APPLICATION

Recommended application – further information can be found in the material safety data sheet

Use on metal surfaces. The parts to be bonded need to be cleaned and degreased. It is recommended to use STALOC technical cleaners (e.g. STALOC industrial quick cleaner), in order to ensure the best results in terms of adhesion. Apply anaerobic adhesive filling the complete gap. Join the parts.

Applicability of the anaerobic adhesive on special surfaces or coatings, thermoplastics and elastomers needs to be tested.

The curing time of STALOC anaerobic adhesives can be accelerated using the STALOC activator for anaerobic adhesives.

Use suitable tools in case you need to disassemble the bonding. In order to ease the disassembly heat substrates to more than 200 °C.

STORAGE

Recommended storage for optimum shelf life

Store product at an optimum temperature between 5°C and 25°C. Keep cool and dry. Make sure that the content is not contaminated once the bottle has been opened, in order to ensure an optimum shelf life. In case you need any further information, please contact the STALOC team.

SAFETY INFORMATION

Please send your request for the latest version of the material safety data sheet (MSDS).

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Issued: 04.05.2012



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