

TECHNICAL DATASHEET

STALOC 5S10

Surface sealant, heat resistant and high-strength


PRODUCT DESCRIPTION

Heat resistant and high-strength anaerobic adhesive used to bond and seal pump, gearbox, engine flanges etc.

The product is highly resistant against water, gas, LPG, various oils and other chemical substances. Moreover, the product can be used as a substitute for solid gaskets. STALOC 5S10 reliably seals in ambient temperatures of -55°C to 200°C and is resistant against impact and vibration.

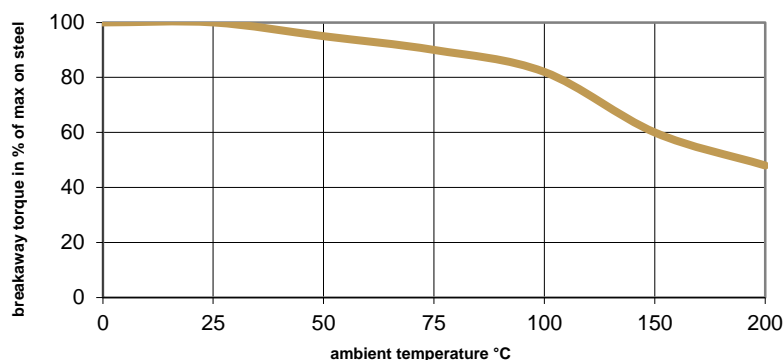
PHYSICAL PROPERTIES (WHEN LIQUID)

ATTRIBUTE	UNIT	SPECIFICATION
Colour		red / fluorescent under blue light
viscosity at +25°C	mPas	50,000 – 300,000 thixotropic
max. gap	mm	0.50 mm
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	15 - 30 min
functional cure time	h	3 - 6 h
final cure time	h	6 - 12 h
shear strength (ASTM D-1002)	Nm	5 - 10 Nm
tensile strength (ASTM D-2095)	Nm	6 - 8 Nm
impact resistance (ASTM D-950)	N/mm ²	5 - 10 N/mm ²
temperature resistance	°C	-55°C to +200°C

TEMPERATURE RESISTANCE OF THE SURFACE SEALANT


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	medium	medium
Water / Glykol 50%	87	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 250°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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