

TECHNICAL DATASHEET

STALOC 5S18

Surface sealant, flexible, medium strength

PRODUCT DESCRIPTION

Flexible, medium-strength anaerobic adhesive used to bond and seal pump, gearbox, engine and other flanges. STALOC 5S18 is resistant against water, gas, LPG, various oils and other chemical substances. Used as a substitute for solid gaskets. Reliably seals in a temperature range from -55°C to +180°C. Resistant against impact and vibration. Does not run. Immediately works against low pressures.

PHYSICAL PROPERTIES (WHEN LIQUID)

ATTRIBUTE	UNIT	SPECIFICATION
Colour		red / fluorescent under blue light
viscosity at +25°C	mPas	70,000 – 600,000 thixotrop
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

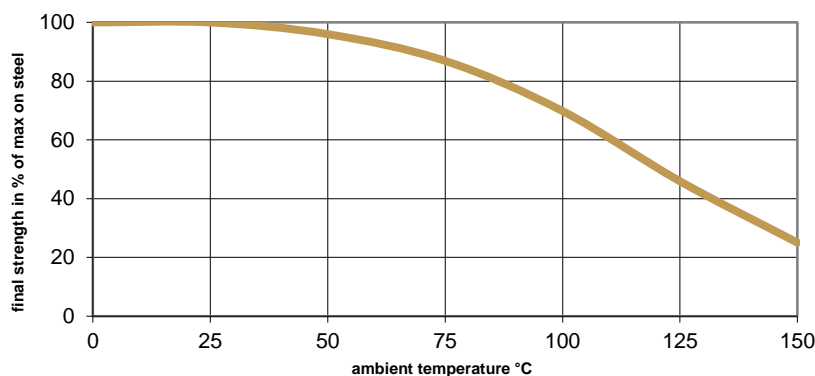
PHYSICAL PROPERTIES (WHEN CURED)

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

ATTRIBUTE	UNIT	SPECIFICATION
finger tight after	min	10 - 20 min
functional cure time	h	1 - 3 h
final cure time	h	6 - 12 h
shear strength (ASTM D-1002)	Nm	8 - 13 Nm
tensile strength (ASTM D-2095)	Nm	7 - 10 Nm
breakaway torque (ISO 10964)	Nm	15 - 25 Nm
run-down torque (ISO 10964)	Nm	18 - 28 Nm
temperature resistance	°C	-55°C to +180°C

TEMPERATURE RESISTANCE OF THE SURFACE SEALANT

Tested on steel specimen following ASTM 1002/DIN 53283



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	good

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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Issued: 04.05.2012

