

TECHNICAL DATASHEET

STALOC 2S90

Threadlocker, capillary

PRODUCT DESCRIPTION

Medium / high strength anaerobic adhesive, which can be used for subsequent securing and sealing of bolted joints. The special viscosity of the product supports a capillary penetration effect. Thus, the product penetrates / seals micro porosities and hairline cracks. The product is especially suitable for small diameter bolts and cylindrical parts.

Excellent resistance against corrosion, vibration, water, gas, various oils and many other chemical substances.

Cures quickly in anaerobic atmosphere. The product is suited for inactive / passive materials like stainless steel.

PHYSICAL PROPERTIES (WHEN LIQUID)

ATTRIBUTE	UNIT	SPECIFICATION
colour		green / fluorescent under blue light
viscosity at +25°C	mPas	10 – 20
max. gap	mm	M5 – 0.07 mm
max. thread size		M5
density at +25°C	g/ml	1.1 g/ml
flashing point	°C	> 100°C
chemical characteristics		dimethacrylic ester
shelf life at +25°C		min. 1 year

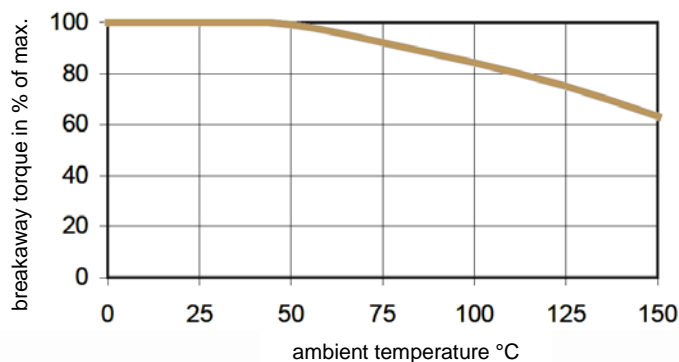
PHYSICAL PROPERTIES (WHEN CURED)

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	0.5 - 1 h
final cure time	h	3 - 6 h
breakaway torque (ISO 10964)	Nm	~ 10-25 Nm
run-down torque (ISO 10964)	Nm	~ 25-40 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 THREADLOCKER

Tested on steel 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	good	medium	medium
Gearbox oil	125	good	medium	medium
gasoline	25	excellent	excellent	excellent
water / glycol 50%	87	excellent	excellent	excellent
brake liquid	25	excellent	good	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



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