

TECHNICAL DATASHEET

# STALOC 2S42

Threadlocker, medium-strength



## PRODUCT DESCRIPTION

Medium-strength, anaerobic adhesive used to secure and seal threads. Disassembly can be realized using normal tools. Can be used on slightly contaminated surfaces (oil, grease, ...). Highly resistant against corrosion, vibration, water, gas, various oils, hydrocarbons and many other chemical substances. Outstanding temperature resistance between -55°C up to 200°C. Short-term sealing properties up to 250°C.

Certified according to NSF, DVGW, TZW, GAZ und EN 751-1.

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

## PHYSICAL PROPERTIES (WHEN LIQUID)

ATTRIBUTE	UNIT	SPECIFICATION
colour		blue / fluorescent under blue light
viscosity at +25°C	mPas	1,700 – 9,000
max. gap	mm	0.20 mm
max. thread diameter		M 24
friction coefficient $\mu$		0.10
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

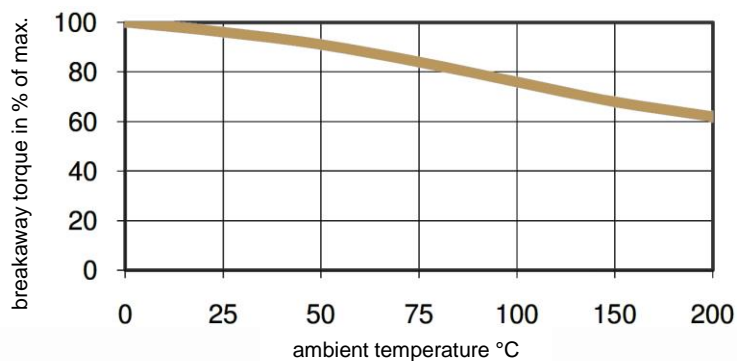
## PHYSICAL PROPERTIES (WHEN CURED)

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

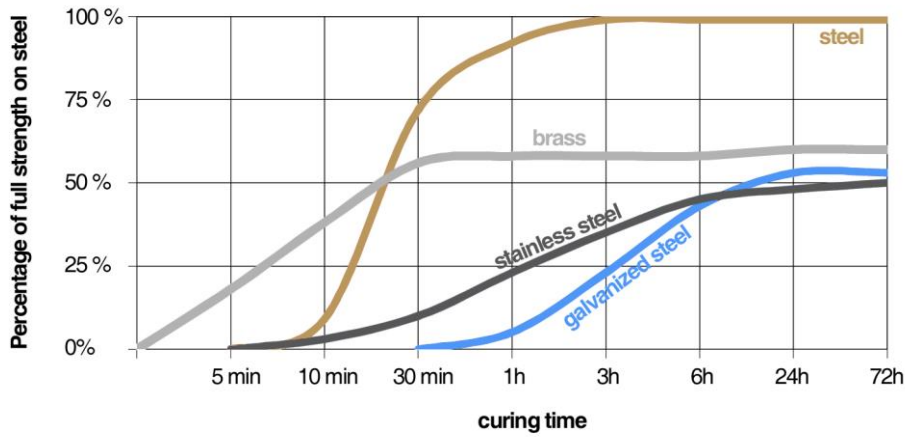
ATTRIBUTE	UNIT	SPECIFICATION
finger tight after	min	5 - 15 min
functional cure time	h	0.5 - 1 h
final cure time	h	1 - 3 h
breakaway torque (ISO 10964)	Nm	~ 18-23 Nm
run-down torque (ISO 10964)	Nm	~ 9-16 Nm
shear strength (ISO 10123)	N/mm <sup>2</sup>	~ 9-13 N/mm <sup>2</sup>
temperature resistance	°C	- 55°C to +200°C

## TEMPERATURE RESISTANCE OF THE THREADLOCKER

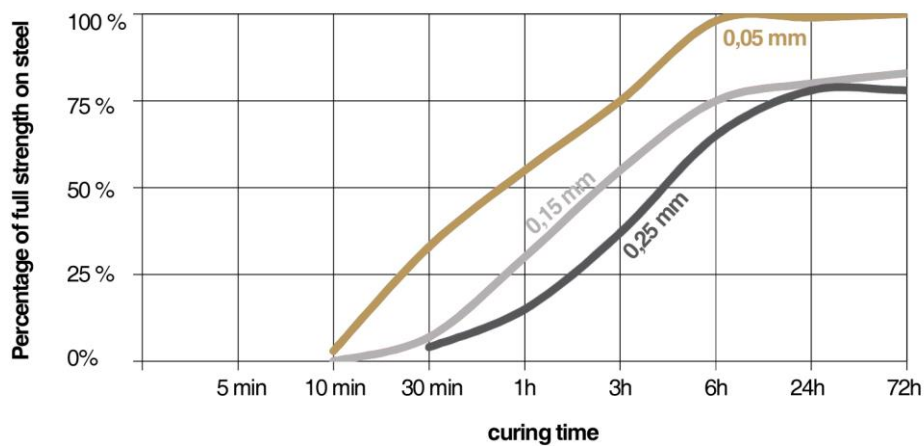
Tested with screw M10 x 20 - quality 8.8 galvanized - nut 0.8d (5Nm preload) – 25°C, according to ISO 10964



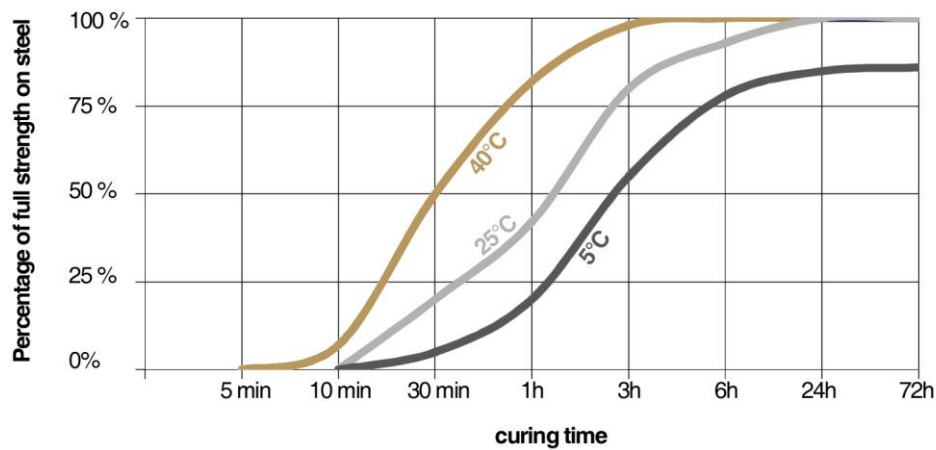
### CURING TIME DEPENDING ON SUBSTRATE



### CURING TIME DEPENDING ON GAP



### CURING TIME DEPENDING ON TEMPERATURE OF SUBSTRATE



## 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	good	good
Water / Glykol 50%	87	excellent	good	good
Brake fluid	25	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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