

## Anaerobic Adhesives and Sealants

## WEICONLOCK®

## WEICONLOCK®

WEICONLOCK products are high quality anaerobic adhesives and sealants on the basis of special methacrylate resins, especially made for economical threadlocking, retaining and sealing of threaded, cylindrical and pipe assemblies.

The characteristic feature of WEICONLOCK is the curing in contact with metal while deprived of air. It provides a shock- and vibration-resistant joint with excellent resistance to chemicals and solvents.

Due to its liquid consistency WEICONLOCK completely fills the gaps, thus giving protection against leakage and fretting corrosion.



## Special features and benefits

WEICONLOCK® is simple, easy to use and very economical. Handling strength is reached within a few minutes and final strength within a few hours at roomtemperature. Metering and mixing is not necessary, there is no pot life to be respected and product wastage is minimised.

In many respects, WEICONLOCK is superior to conventional methods of assembly.

The use of WEICONLOCK

- avoids expensive down-times
- reduces production costs
- improves operational reliability
- reduces assembly times

## Applications

Offering different grades of strength and viscosity, WEICONLOCK is suitable for a wide range of applications:

- for locking, fastening and sealing of screw connections from M5 to M80, for pipe joints as well as coarse threaded connections up to 3".
- for reliable retaining of bearings, bushings, bolts and other press or slip fitted connections.
- for sealing and locking hydraulic and pneumatic pipe connections.

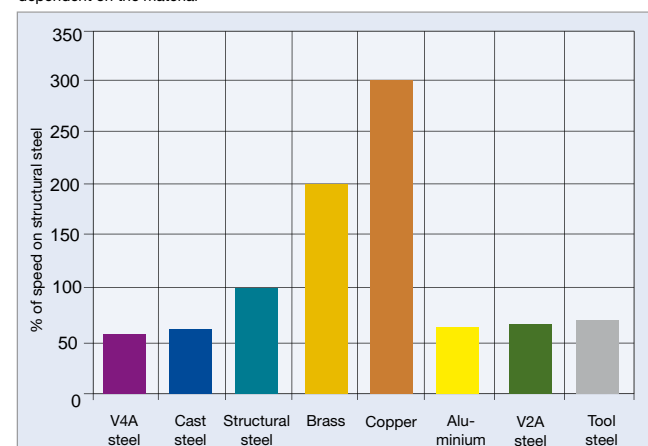
In addition, WEICONLOCK is highly recommended for use in flange sealing, replacing conventional gaskets in many cases. The benefits are:

- no expensive stock keeping
- no problems with complicated seals
- no setting of the seals (unlike solid gaskets)

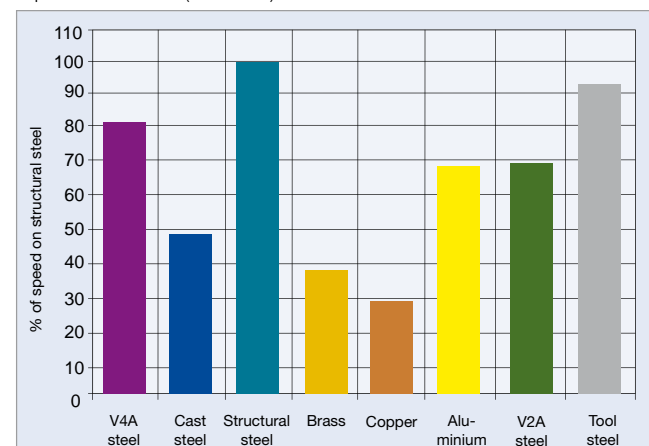
WEICONLOCK is suitable for all metals and certain plastics. It can be applied either manually or semi / fully automatic. As cost-effective problem solvers, WEICONLOCK products are indispensable in many sectors of industry:

- automotive industry
- engine and plant construction
- manufacture of pumps and pipes
- hydraulic and pneumatic equipment
- precision mechanics
- in electrical engineering and electro-technics and in nearly all fields of repair and maintenance

General curing speed of WEICONLOCK  
dependent on the material



Compression shear strength of WEICONLOCK  
dependent on the metal (DIN 544521)



## General Information

## Pretreatment of Surface

In general, WEICONLOCK does not require special pretreatment as slightly oily surfaces (e.g. on 'as received' parts) will be tolerated. However, best results will be achieved on cleaned, degreased parts (use WEICON Cleaner S). If required, the parts should be slightly roughened.

## Application

WEICONLOCK is ready for use and should be applied evenly direct from the bottle/tube with the dispensing tip (avoid direct contact of dispensing tip with metal). On pressfitted parts and larger cylindrical assemblies a thin and uniform layer should be applied on both surfaces. In the case of threaded blind holes fill sufficient quantity in the bore hole. On screws and bolts, apply WEICONLOCK® around the thread.

Do not pour back into the bottle any WEICONLOCK fluid which had contact with metal; even smallest metal particles will cause the content of the bottle to cure. In series construction, the use of manual or automatic applicators is recommended.

## Choice of product

WEICONLOCK is available in different categories of strength

low strength	=	easy dismantling
medium strength	=	dismantling possible with ordinary tools
high strength	=	cannot be dismantled mechanically other than by destruction

Different viscosity grades enable the locking of screws of smallest diameter up to M80/R3".

## WEICONLOCK Activator F

The cure time can considerably be reduced by pretreatment with WEICONLOCK Activator F, which is recommended for all passive surfaces and which is indispensable at low ambient temperatures (+10°C and below) and for large gaps. On non-metallic surfaces, WEICONLOCK is made effective by use of the activator.

200 ml  
30700200  
Spray

1 l  
30700501  
Liquid



For applications where passive surfaces are involved, where the use of an Activator is not wanted yet where a rapid cure is required, a solution could be the use of types AN 302-60, AN 302-80, AN 306-10 and AN 306-30. These special types allow to reach handling strength much quicker than any standard type (without Activator).

## Cure

WEICONLOCK remains liquid as long as in contact with air. The cure starts when WEICONLOCK, between the interfaces, comes into contact with metal under the absence of air. The cure time is dependent on the selected type, the ambient temperature and the material.

## Dismantling

Connections of low and medium strength can easily be loosened with ordinary tools; high-strength bonded parts can be disassembled by being heated to min. 300°C. Cured residues of WEICONLOCK can be removed mechanically or with „WEICON Sealant and Adhesive Remover“.

## Storage

WEICONLOCK can be stored in the unopened original container for at least one year at room temperature. Keep away from heat sources and direct sunlight. The air in the bottle/tube keeps WEICONLOCK liquid.

## Safety precautions

WEICONLOCK adhesives and sealants generally do not cause allergic reactions of the skin. However, in isolated cases where skin is continuously bruised or micro-lacerated sensitisation may occur. Therefore, extensive and direct contact with the skin should be avoided, e.g. by use of WEICON Hand Protective Foam. See further details in the Material Safety Data Sheets which are available upon request.



## Active and Passive materials

Active materials  
(fast curing)

- bronze
- iron
- copper
- brass
- steel

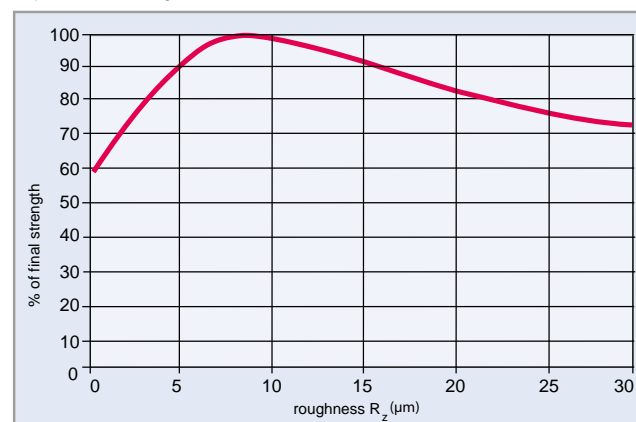
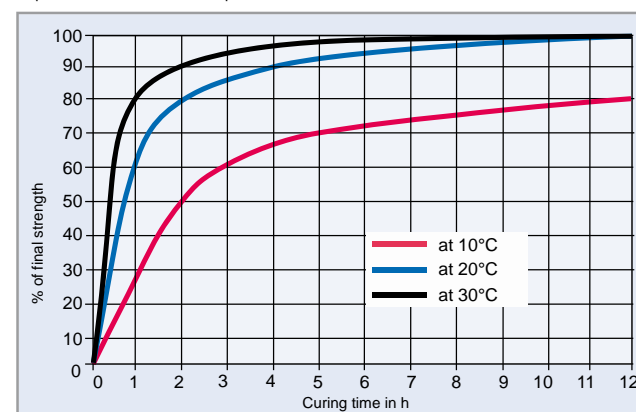
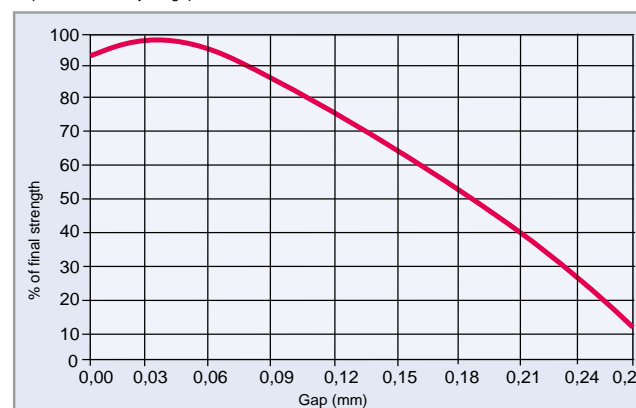
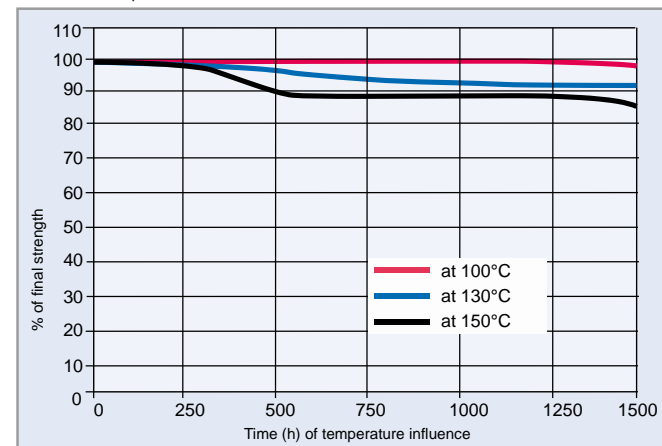
Passive materials  
(slower curing)

- high-alloyed steel
- aluminium, nickel, zinc, gold
- oxid layers
- chromate layers
- anodic coatings
- plastics and ceramics

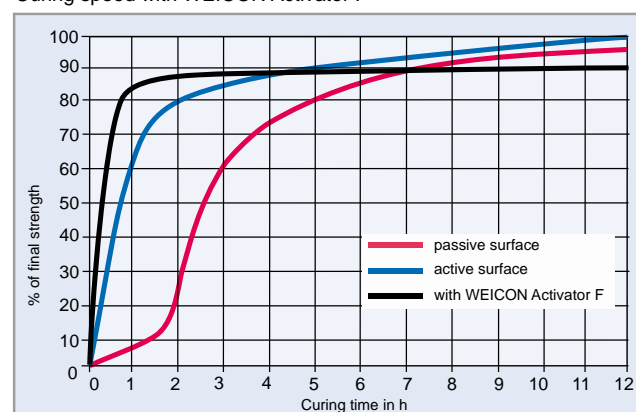
## Resistance to chemicals from WEICONLOCK after the cure

acetaldehyde	+	copper sulphate	+	maleic	+	potassium hydroxide	-
acetate solvent	+	cold salt water	+	melamine resin	+	pyridine	+
acetic acid 10%	%+	developer liquid	+	mercaptan, thioalcohol	+	river water	+
acetic acid 80%	%O	dichloroethylether	+	methane	+	sewage, faeces	+
acetone	+	diethyl ether	+	methylamine	+	seawater	+
alcohols	+	diethyl ether	+	methyl ethyl ketone	+	silicone oils	+
alkaline solution (alk. salt water)	+	diglycollic	+	methyl acetate	+	sorbitol	+
ammoniac anhydride	-	dioxane - dry	+	mineral oil, white	+	steam sterilization	+
ammonium hydroxide	O	drinking water	+	mine water	+	styrene	+
amyl acetate	+	emulsified oils	+	naphtha, petroleum, shale oil	+	sulfones	+
aniline	+	ethyl acetate	+	naphthalene	+	sulfonic acids (10 %)	%+
aromat. gasoline	+	ethylenediamine	+	natronhydroxyd 20% hot	%O	sulfuric acid (75 - 100 %)	%-
aromat. solvent	+	ethylene dichloride	+	natronhydroxyd 20% cold	%+	sulfur mud solution in carbon disulphide	+
ash slurry	+	ethylene glycol	+	natronhydroxyd 50% hot	%-	sulphurous acid	O
barium sulfate	+	fatty acids	+	natronhydroxyd 50% cold	%O	sulfuric acid 75%	%O
battery acid (10%)	%+	ferrous sulphate	+	natronhydroxyd 70% hot	%-	turpentine	+
benzene	+	formaldehyde - cold	+	natronhydroxyd 70% cold	%O	thiourea	+
benzoic acid	+	formic acid (cold)	+	nitric acid (20 %)	%+	toluene, methylbenzene	+
boric acid	+	freon	+	oils	+	trichloroethane	+
brake fluid	+	fuel oil	+	oxalic acid	+	trichloromethane	+
butadiene	+	fuming nitric acid	-	paraffin oil, kerosene	+	trioxane	+
butyric 10%	%+	fuming sulfuric acid	-	perchlorethylene (dry)	+	vapor pressure - low	+
butylaldehyde	+	gasoline	+	perchloric acid, perchloric acid 10%	%+	vaseline	+
butylamine	+	glycolic acid	+	permanganic	-	vinyl acetate	+
butyl acetate	+	glycerine	+	peroxide bleaching	+	wax	+
butyl chloride	+	grease lubrication	+	peroxy	-	xylene, dimethylbenzene	+
cadmium sulfate	+	hydrogen bromide (10%)	%+	persulphuric (10 %)	%+		
castor oil	+	Hydrocyanic acid (10 %)	%+	phenol	+		
cellulose acetate	+	hydrogen	+	phenolic resins	+		
chinon	+	hydrogen peroxide conc.	O	phosphoric acid 10% hot	O		
chlorine - dry	-	hydrofluoric acid	-	phosphoric acid 10% cold	+		
chlorine alcohol	+	heptane	+	phosphoric acid 50% hot	O		
chloramine	+	hydrazine	+	phosphoric acid 50% cold	O		
chlorine dioxide	O	hydrochloric acid	O	phosphoric acid 85% hot	-		
chlorinated hydrocarbon	+	isocyanate resin	+	phosphoric acid 85% cold	O		
chloroform - dry	+	isooctane	+	phthalic	+		
coal tar	+	ketones	+	potash alum	+		
copper chloride	+	lithium chloride	+	potassium acetate	+		

+ = good resistance  
 O = preliminary tests resp. resistance tests are recommended  
 % = WEICONLOCK products are resistant only up to the indicated concentration  
 - = WEICONLOCK products are not suitable, or may be used only after thorough preliminary tests

Strength of WEICONLOCK®  
Dependent on the roughnessCuring speed of WEICONLOCK®  
dependent on the ambient temperatureStrength of WEICONLOCK®  
dependent on the joint gapTemperature long-term resistance WEICONLOCK®  
at increased temperatures

Curing speed with WEICON Activator F



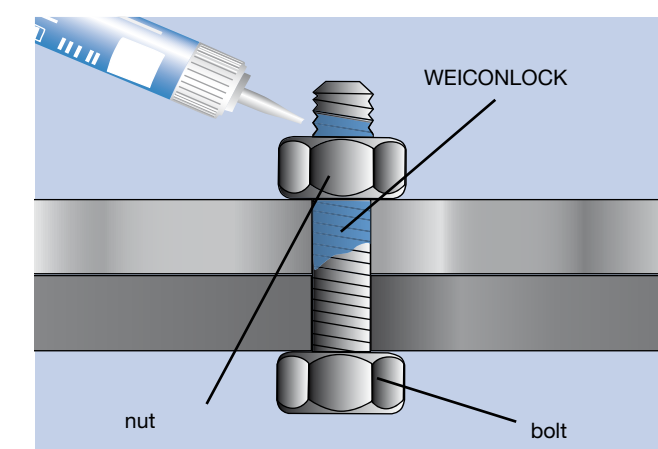


## Anaerobic Adhesives and Sealants

## Threadlocking

WEICONLOCK meets the complex demands required in threadlocking today.

With conventional methods (e.g. spring ring, counter-nuts), breakaway forces are absorbed on only 40% of the contact surfaces. Threaded connections locked with WEICONLOCK instead have a higher breakaway torque. As a liquid, WEICONLOCK completely fills the voids and convolutions of threads to ensure 100% contact between the interfaces, thus preventing fretting corrosion at the same time.



Due to its sealing properties, WEICONLOCK allows to use through-holes instead of blind tapped holes and helps to ensure specific clamp loadings.

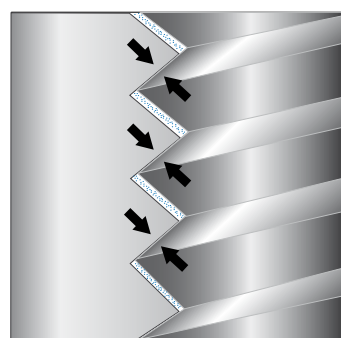
Even slightly oily fasteners may be excellently locked. However, optimum strength will be reached on parts cleaned and degreased (as with WEICON Surface Cleaner).



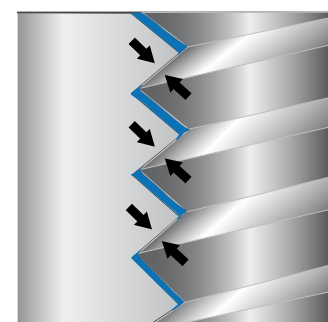
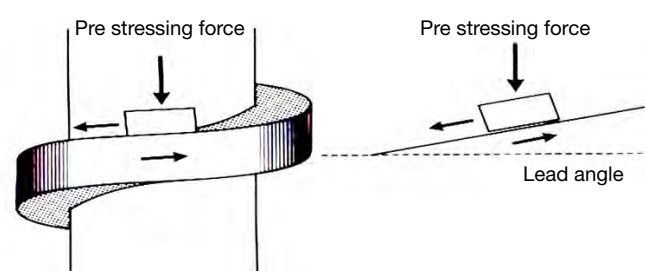
## Threadlocking

In screw fixings the flanks of the threads of bolt and nut are firmly pressed together under a specific pre stressing force. The achieved clamping force depends on i. a. the applied pre stressing force, the screw's geometry and the quality of material.

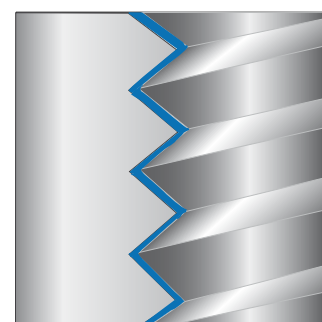
**Target:**  
The self-loosening and unscrewing of the bolt is to be prevented (self-locking effect).



Assembly with pre stressing



Assembly with pre stressing



Floating assembly

## Failure of a screw by loosening

Possible causes:

**Setting:** Rough surfaces of the screw are flattened by the pressure of the pre stressing force.

**Creeping:** The compressive strength of screw material cannot resist the applied pre stressing.

**Temperature variations.** Expansion of the material at high temperatures, contraction at low temperatures.

## WEICONLOCK® = Additional safety!

Liquid adhesives fill up the microscopic gaps between the threads completely and provide a material connection

No tolerances, no movement, no setting!

Thus: - **No loosening or unscrewing!**

Further advantages: - **Sealing and corrosion protection!**

## Anaerobic Adhesives and Sealants

## Threadlocking

## AN 301-43\*

Threadlocking, marking-free,  
NSF-/DVGW-testedhigher viscosity  
medium strength  
disassembly with normal tools

20 ml ✓ 50 ml ✓ 200 ml ✓  
30143020 30143150 30143200



## Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	2.000 - 8.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	18 - 22 Nm
Prevailing strength (Thread)	9 - 11 Nm
Shear strength (DIN 54452)	10 - 13 N/mm²
Handling strength at room temperature	5 - 15 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C



## AN 302-21

Threadlocking, vibration-proof

low viscosity  
low strength  
easy disassembly

20 ml ✓ 50 ml ✓ 200 ml ✓  
30221020 30221150 30221200



## Technical Data

Colour	violet
For threaded joints up to	M 12
Viscosity at +25°C Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	3 - 6 Nm
Shear strength (DIN 54452)	4 - 7 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

## AN 301-70\*

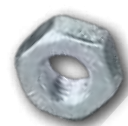
Threadlocking, marking-free  
NSF-testedmedium viscosity  
high strength  
hard to disassemble

20 ml ✓ 50 ml ✓ 200 ml ✓  
30170020 30170150 30170200



## Technical Data

Colour	green
For threaded joints up to	M 25
Viscosity at +25°C Brookfield	500 - 900 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	25 - 35 Nm
Prevailing strength (Thread)	40 - 50 Nm
Shear strength (DIN 54452)	14 - 20 N/mm²
Handling strength at room temperature	5 - 15 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C



\*



## WEICONLOCK® »White Line«

The products AN 301-43 and 301-70 belong to the new WEICONLOCK »White Line«.

In order to take the increased requirements in the field of health protection and safety at work into account, WEICON now introduces the WEICONLOCK »White Line«.

The new formulas also enable use in sensitive production areas. Three types of the »White Line« have a »white« EC safety data sheet and are therefore marking-free and meet strict requirements of plant physicians.

The new »White Line« has been tested in accordance with the demanding requirements of the NSF/ANSI 61 (American National Standards Institute) for use in the drinking water area. It is therefore in particular suitable for applications in the food, cosmetics and pharmaceuticals sectors. The new WEICONLOCK »White Line« can also be used in all other areas of industry.

This results in the following advantages when using the new WEICONLOCK types:

- NSF drinking water approval in accordance with ANSI 61
- No marking<sup>1</sup> with danger symbols and risk or safety statements of the safety data sheet in accordance with the EC Regulations No. 1907/2006 – ISO 11014-1
- Increased safety at work and health protection
- Excellent resistance to chemicals after curing
- Temperature-resistant up to +200°C<sup>2</sup>

<sup>1</sup> Applies to the types AN 301-43, 301-70 and 301-72

<sup>2</sup> Applies to the type AN 301-72



# Anaerobic Adhesives and Sealants

## Threadlocking

### AN 302-22

Threadlocking, vibration-proof

medium viscosity  
low strength  
easy disassembly

20 ml ✓ 30222020 50 ml ✓ 30222150 200 ml ✓ 30222200



#### Technical Data

Colour	purple
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	1.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	4 - 8 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	3 - 5 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

### AN 302-41

Threadlocking, vibration-proof

low viscosity  
medium strength  
normal to disassemble

20 ml ✓ 30241020 50 ml ✓ 30241150 200 ml ✓ 30241200



#### Technical Data

Colour	blue
For threaded joints up to	M 12
Viscosity at +25°C Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	10 - 15 Nm
Prevailing strength (Thread)	12 - 16 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	approx. 3 h
Temperature resistance	-60 up to +150°C

### AN 302-40

Threadlocking, vibration-proof  
DVGW-tested

medium viscosity  
medium strength  
disassembly with normal tools

20 ml ✓ 30240020 50 ml ✓ 30240150 200 ml ✓ 30240200



#### Technical Data

Colour	transparent
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	600 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	12 - 16 Nm
Prevailing strength (Thread)	18 - 24 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

#### Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	1.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	14 - 18 Nm
Prevailing strength (Thread)	5 - 8 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

### AN 302-42

Threadlocking

medium viscosity  
medium strength  
disassembly with normal tools

20 ml ✓ 30242020 50 ml ✓ 30242150 200 ml ✓ 30242200





## Anaerobic Adhesives and Sealants

## Threadlocking

## AN 302-43

Threadlocking DVGW and KTW  
approval for drinking water sectorlow viscosity  
medium strength  
easy disassembly10 ml ✓  
3024311020 ml ✓  
3024302050 ml ✓  
30243150200 ml ✓  
30243200

## Technical Data

Colour	blue
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	2.000 - 7.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	17 - 22 Nm
Prevailing strength (Thread)	8 - 12 Nm
Shear strength (DIN 54452)	9 - 13 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C



## AN 302-50

Locking of threads and stud bolts

medium viscosity  
high strength  
hard to disassemble20 ml ✓  
3025002050 ml ✓  
30250150200 ml ✓  
30250200

## Technical Data

Colour	transparent
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm <sup>2</sup>
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C

## Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	700 - 1.000 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm <sup>2</sup>
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C



## AN 302-60

Threadlocking for passive materials\*

medium viscosity  
high strength  
hard to disassemble20 ml ✓  
3026002050 ml ✓  
30260150200 ml ✓  
30260200

**Passive materials:**  
(slow curing)

- high-alloyed steel
- aluminium, nickel, zinc, gold
- oxid layers
- chromate layers
- anodic coatings
- plastics and ceramics

## AN 302-62

Threadlocking

higher viscosity  
high strength  
hard to disassemble20 ml ✓  
3026202050 ml ✓  
30262150200 ml ✓  
30262200

## Technical Data

Colour	red
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	1.500 - 6.500 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	20 - 25 Nm
Prevailing strength (Thread)	40 - 55 Nm
Shear strength (DIN 54452)	10 - 15 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C



## Anaerobic Adhesives and Sealants

## Threadlocking

## AN 302-70

Locking of threads and stud bolts  
DVGW approval

medium viscosity  
high strength  
hard to disassemble

10 ml ✓ 20 ml ✓ 50 ml ✓  
30270110 30270020 30270150

200 ml ✓  
30270200



## Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	28 - 35 Nm
Prevailing strength (Thread)	50 - 65 Nm
Shear strength (DIN 54452)	15 - 20 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

## AN 302-71

Locking of threads and stud bolts

medium viscosity  
high strength  
hard to disassemble

10 ml ✓ 20 ml ✓ 50 ml ✓  
30271020 30271150 30271200



## Technical Data

Colour	red
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	28 - 35 Nm
Prevailing strength (Thread)	50 - 65 Nm
Shear strength (DIN 54452)	15 - 20 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

## Technical Data

Colour	red
For threaded joints up to	M 56 R 1/2"
Viscosity at +25°C Brookfield	6.000 - 15.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	20 - 30 Nm
Prevailing strength (Thread)	40 - 75 Nm
Shear strength (DIN 54452)	10 - 15 N/mm²
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +230°C

## AN 302-72

Locking of threads and stud bolts  
high temperature resistant, DVGW approval

higher viscosity  
high strength  
hard to disassemble

20 ml ✓ 50 ml ✓ 200 ml ✓  
30272020 30272150 30272200



## AN 302-90

Threadlocking, for locking after mounting  
and sealing of hair cracks

low viscosity  
high strength  
hard to disassemble

20 ml ✓ 50 ml ✓ 200 ml ✓  
30290020 30290150 30290200



## Technical Data

Colour	green
For threaded joints up to	M 5 kapillar
Viscosity at +25°C Brookfield	10 - 20 mPa·s
Gap filling capacity max.	0,07 mm
Breakaway strength (Thread)	15 - 25 Nm
Prevailing strength (Thread)	30 - 40 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	5 - 20 min.
Final strength at room temperature	approx. 3 h
Temperature resistance	-60 up to +150°C

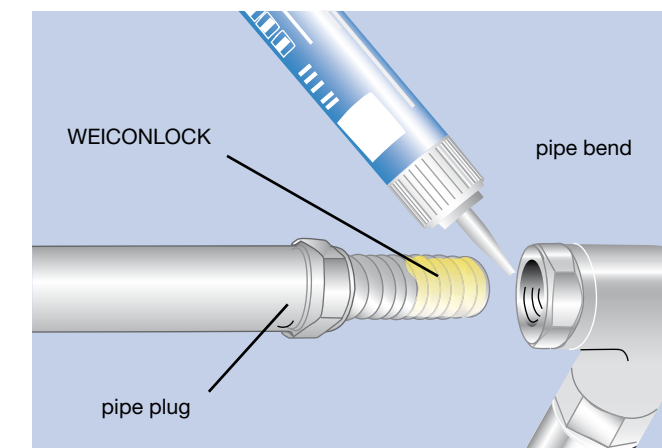


## Anaerobic Adhesives and Sealants

# Pipe and Thread Sealing

sealant types have especially been formulated to prevent the escape of gaseous and liquid substances. They seal up to burst point and resist almost all substances used in industry (list of chemical resistance is available on request).

The use of WEICONLOCK prevents clogging and contamination of fittings as well as the blockage of hydraulic and pneumatic valves as may occur with conventional sealing methods (e.g. hemp or Teflon tape).



Connections sealed with WEICONLOCK are protected against seizing and fretting corrosion. The available different strength grades allow dismantling even after years.

## Leakage risks in the application of hemp or sealing tapes:

- difficult dosing and handling
- the tapes are often cut by the thread
- the roughness of threads and gaps are not fully filled
- rotation often possible only in one direction, no correction possible



## WEICONLOCK-Pipe sealing inside the thread

Prevents leakage risks through optimal gap filling!





## Anaerobic Adhesives and Sealants

# Pipe and Thread Sealing

## AN 302-25

Pipe and Thread Sealing  
vibration-proof for coarse threads

high viscosity  
low strength  
easy disassembly

50 ml ✓ 30225150    200 ml ✓ 30225200



### Technical Data

Colour	brown
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	6.000 - 30.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	5 - 8 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	3 - 5 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

## AN 302-45

Pipe and Thread Sealing for coarse threads  
DVGW-tested

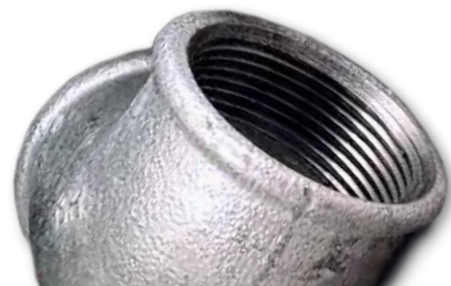
high viscosity  
medium strength  
disassembly with normal tools

50 ml ✓ 30245150    200 ml ✓ 30245200



### Technical Data

Colour	blue
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	6.000 - 30.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	10 - 15 Nm
Prevailing strength (Thread)	12 - 18 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C



### Technical Data

Colour	green
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	14.000 - 24.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	40 - 50 Nm
Prevailing strength (Thread)	40 - 50 Nm
Shear strength (DIN 54452)	15 - 25 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C

**BAM**  
Federal Institute for  
Materials Research  
and Testing



## AN 302-75

Pipe and Thread Sealing  
BAM certified

high viscosity  
high strength  
hard to disassemble

50 ml ✓ 30275150    200 ml ✓ 30275200



### Technical Data

Colour	red
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	6.000 mPa·s
Gap filling capacity max.	0,25 mm
Breakaway strength (Thread)	30 - 40 Nm
Prevailing strength (Thread)	10 - 15 Nm
Shear strength (DIN 54452)	35 - 45 N/mm²
Handling strength at room temperature	40 - 60 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +150°C



## AN 302-77

Pipe and Thread Sealing for  
large thread parts and flanges

high viscosity  
high strength  
hard to disassemble

50 ml ✓ 30277150    200 ml ✓ 30277200





## Anaerobic Adhesives and Sealants

## Pipe and Thread Sealing

## AN 302-80

## Pipe and Thread Sealing for passive materials\*

higher viscosity  
high strength  
hard to disassemble

20 ml ✓ 50 ml ✓ 200 ml ✓  
30280020 30280150 30280200



## Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	3.000 - 6.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	50 - 70 Nm
Shear strength (DIN 54452)	20 - 30 N/mm²
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C

\*



Passive materials:  
(slow curing)

- high-alloyed steel
- aluminium, nickel, zinc, gold
- oxide layers
- chromate layers
- anodic coatings
- plastics and ceramics

## AN 305-11

Pipe and Thread Sealing  
DVGW approval

higher viscosity  
medium strength  
disassembly with normal tools

50 ml ✓ 200 ml ✓  
30511150 30511200



## Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,40 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm²
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C

## Technical Data

Colour	brown
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	12 - 15 Nm
Prevailing strength (Thread)	18 - 22 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C



## AN 305-42

Hydraulic and Pneumatic Sealing  
DVGW certified

medium viscosity  
medium strength  
disassembly with normal tools

20 ml ✓ 50 ml ✓ 200 ml ✓  
30542020 30542150 30542200



## AN 305-72

Pipe and Flange Sealing (with PTFE)  
immediate sealing effect, DVGW certified

high viscosity  
medium strength  
disassembly with normal tools

50 ml ✓ 200 ml ✓  
30572150 30572200



## Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,40 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm²
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C





Anaerobic Adhesives and Sealants

Pipe and Thread Sealing



AN 305-77  
Thread Sealing  
DVGW and BAM approval for oxygen

high viscosity  
medium strength  
disassembly with normal tools

50 ml ✓  
30577150

200 ml ✓  
30577200



Technical Data	
Colour	yellow
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	24.000 - 70.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	18 - 22 Nm
Prevailing strength (Thread)	10 - 14 Nm
Shear strength (DIN 54452)	6 - 13 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	1 - 3 h
Temperature resistance	-60 up to +150°C

AN 305-86

Pipe Sealing, extra strong

higher viscosity  
high strength  
hard to disassemble

20 ml ✓  
30586020

50 ml ✓  
30586150

200 ml ✓  
30586200



Technical Data	
Colour	red
For threaded joints up to	M 56 R 2"
Viscosity at +25°C Brookfield	6.000 - 7.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	15 - 30 Nm
Prevailing strength (Thread)	25 - 45 Nm
Shear strength (DIN 54452)	10 - 20 N/mm²
Handling strength at room temperature	60 - 90 min.
Final strength at room temperature	12 - 24 h
Temperature resistance	-60 up to +150°C





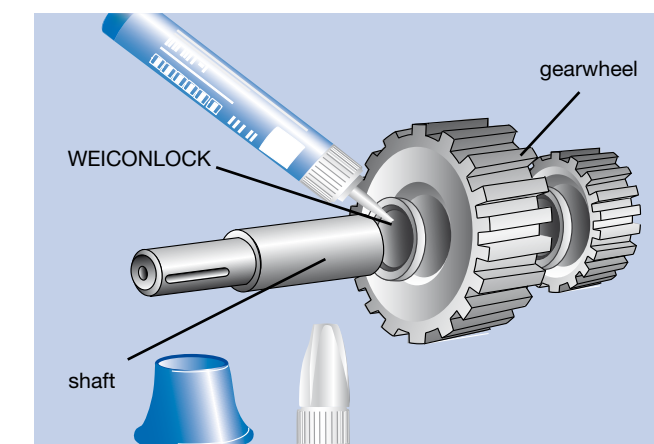
# Anaerobic Adhesives and Sealants

## Retaining Cylindrical Assemblies

WEICONLOCK retaining adhesives fill the voids on smooth mating surfaces and thus provide total contact of the parts. Additional securing (e.g. by keys) will not be necessary and fretting corrosion will be avoided.

### Further applications:

Retention of ball-, roller- and slide bearings, bushes, bolts, liners, keys, splines and other close fitting parts



Combined methods of retaining (e.g. bonding with WEICONLOCK in connection with shrinkfitting or press-fitting) allow to obtain a power transmission and torque strength higher than that for each of the two methods separately.

The combination of bonding and securing by feather keys will prevent punctual load and fretting corrosion. No axial securing will be necessary in this case.





# Anaerobic Adhesives and Sealants

## Retaining Cylindrical Assemblies

### AN 301-38\*

Retaining cylindrical assemblies for bearings, shafts and bushings, NSF approval

medium viscosity  
high strength  
hard to disassemble

20 ml ✓ 30138020    50 ml ✓ 30138150    200 ml ✓ 30138200



#### Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	2.000 - 3.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	30 - 40 Nm
Prevailing strength (Thread)	45 - 60 Nm
Shear strength (DIN 54452)	20 - 25 N/mm²
Handling strength at room temperature	approx. 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C



### AN 301-48\*

Retaining cylindrical assemblies for bearings, shafts and bushings  
high temperature resistant, DVGW + NSF approval

medium viscosity  
high strength  
hard to disassemble

20 ml ✓ 30148020    50 ml ✓ 30148150    200 ml ✓ 30148200



#### Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	450 - 650 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	25 - 30 Nm
Prevailing strength (Thread)	40 - 55 Nm
Shear strength (DIN 54452)	25 - 30 N/mm²
Handling strength at room temperature	2 - 6 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C

\*



#### WEICONLOCK® »White Line«

The products AN 301-38 and 301-48 belong to the new WEICONLOCK »White Line«.

In order to take the increased requirements in the field of health protection and safety at work into account, WEICON now introduces the WEICONLOCK »White Line«.

The new formulas also enable use in sensitive production areas. Three types of the »White Line« have a »white« EC safety data sheet and are therefore marking-free and meet strict requirements of plant physicians.

The new »White Line« has been tested in accordance with the demanding requirements of the NSF/ANSI 61 (American National Standards Institute) for use in the drinking water area. It is therefore in particular suitable for applications in the food, cosmetics and pharmaceuticals sectors. The new WEICONLOCK »White Line« can also be used in all other areas of industry.

This results in the following advantages when using the new WEICONLOCK types:

- NSF drinking water approval in accordance with ANSI 61
- No marking<sup>1</sup> with danger symbols and risk or safety statements of the safety data sheet in accordance with the EC Regulations No. 1907/2006 – ISO 11014-1
- Increased safety at work and health protection
- Excellent resistance to chemicals after curing
- Temperature-resistant up to +200°C<sup>2</sup>

<sup>1</sup> Applies to the types AN 301-43, 301-70 and 301-72

<sup>2</sup> Applies to the type AN 301-72



# Anaerobic Adhesives and Sealants

## Retaining Cylindrical Assemblies

### AN 306-00

Retaining cylindrical assemblies for bearings, shafts and bushings

medium viscosity  
high strength  
hard to disassemble

20 ml ✓ 30600020    50 ml ✓ 30600150    200 ml ✓ 30600200



#### Technical Data

Colour	transparent
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	500 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm²
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C

### AN 306-01

Retaining cylindrical assemblies for bearings, shafts and bushings

low viscosity  
high strength  
hard to disassemble

20 ml ✓ 30601020    50 ml ✓ 30601150    200 ml ✓ 30601200



#### Technical Data

Colour	green
For threaded joints up to	M 12
Viscosity at +25°C Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	25 - 30 Nm
Prevailing strength (Thread)	50 - 60 Nm
Shear strength (DIN 54452)	15 - 18 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C

### AN 306-03

Retaining cylindrical assemblies for bearings, shafts and bushings

low viscosity  
high strength  
hard to disassemble

20 ml ✓ 30603020    50 ml ✓ 30603150    200 ml ✓ 30603200



#### Technical Data

Colour	green
For threaded joints up to	M 12
Viscosity at +25°C Brookfield	125 mPa·s
Gap filling capacity max.	0,10 mm
Breakaway strength (Thread)	25 - 30 Nm
Prevailing strength (Thread)	50 - 60 Nm
Shear strength (DIN 54452)	15 - 18 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C





# Anaerobic Adhesives and Sealants

## Retaining Cylindrical Assemblies

### AN 306-10

Retaining cylindrical assemblies for passive materials\*

medium viscosity  
high strength  
hard to disassemble

20 ml ✓ 30610020    50 ml ✓ 30610150    200 ml ✓ 30610200

\* **Passive materials:** (slower curing)

- high-alloyed steel
- aluminium, nickel, zinc, gold
- oxid layers
- chromate layers
- anodic coatings
- plastics and ceramics



#### Technical Data

Colour	green
For threaded joints up to	M 20 R 3/4"
Viscosity at +25°C Brookfield	700 - 1.000 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm²
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C

### AN 306-20

Retaining cylindrical assemblies  
high temperature resistant, DVGW-/KTW-approved

higher viscosity  
high strength  
hard to disassemble

20 ml ✓ 30620020    50 ml ✓ 30620150    200 ml ✓ 30620200



**TZW** Technologiezentrum Wasser  
Karlsruhe  
Prüfstelle Wasser

**BAM** Federal Institute for  
Materials Research  
and Testing

#### Technical Data

Colour	green
For threaded joints up to	M 56 R 2"
Viscosity at +25°C Brookfield	3.000 - 6.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	28 - 36 Nm
Prevailing strength (Thread)	40 - 55 Nm
Shear strength (DIN 54452)	15 - 25 N/mm²
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	approx. 24 h
Temperature resistance	-60 up to +200°C

#### Technical Data

Colour	green
For threaded joints up to	M 36
Viscosity at +25°C Brookfield	3.000 - 6.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	50 - 70 Nm
Shear strength (DIN 54452)	20 - 30 N/mm²
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +180°C



**BAM** Federal Institute for  
Materials Research  
and Testing

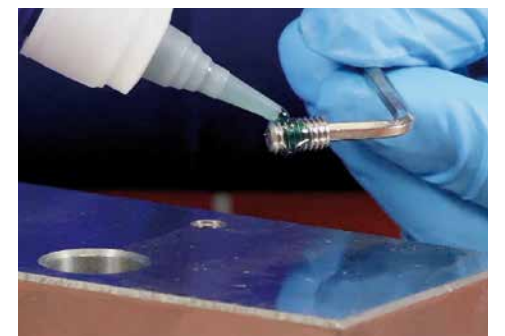


### AN 306-30

Retaining cylindrical assemblies for  
passive materials\*, BAM approval for oxygen

higher viscosity  
high strength  
hard to disassemble

20 ml ✓ 30630020    50 ml ✓ 30630150    200 ml ✓ 30630200



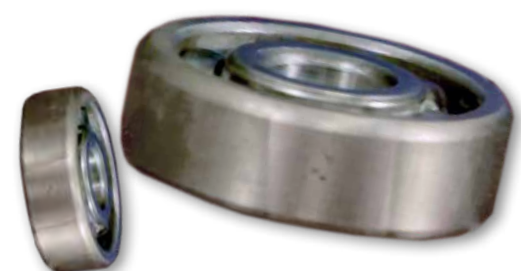
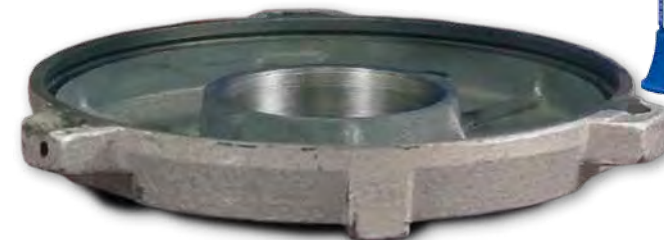
### AN 306-38

Retaining cylindrical assemblies for bearings,  
gear wheels and bolts, fast cure

medium viscosity  
high strength  
hard to disassemble

10 ml ✓ 30638110    20 ml ✓ 30638020    50 ml ✓ 30638150

200 ml ✓ 30638200





# Anaerobic Adhesives and Sealants

## Retaining Cylindrical Assemblies

### AN 306-40

Retaining cylindrical assemblies  
high temperature resistant, slow cure

medium viscosity  
high strength  
hard to disassemble

20 ml ✓ 50 ml ✓ 200 ml ✓  
30640020 30640150 30640200



#### Technical Data

Colour	green
For threaded joints up to	M 20
Viscosity at +25°C Brookfield	600 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	20 - 30 Nm
Prevailing strength (Thread)	30 - 40 Nm
Shear strength (DIN 54452)	15 - 30 N/mm²
Handling strength at room temperature	approx. 240 min.
Final strength at room temperature	approx. 24 h
Temperature resistance	-60 up to +200°C

### AN 306-41

Retaining cylindrical assemblies for  
bearings, shafts and bushings

medium viscosity  
medium strength  
disassembly with normal tools

20 ml ✓ 50 ml ✓ 200 ml ✓  
30641020 30641150 30641200



#### Technical Data

Colour	yellow
For threaded joints up to	M 20
Viscosity at +25°C Brookfield	550 mPa·s
Gap filling capacity max.	0,12 mm
Breakaway strength (Thread)	12 - 15 Nm
Prevailing strength (Thread)	17 - 22 Nm
Shear strength (DIN 54452)	8 - 12 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C



### AN 306-48

Retaining cylindrical assemblies  
high temperature resistant, BAM approval

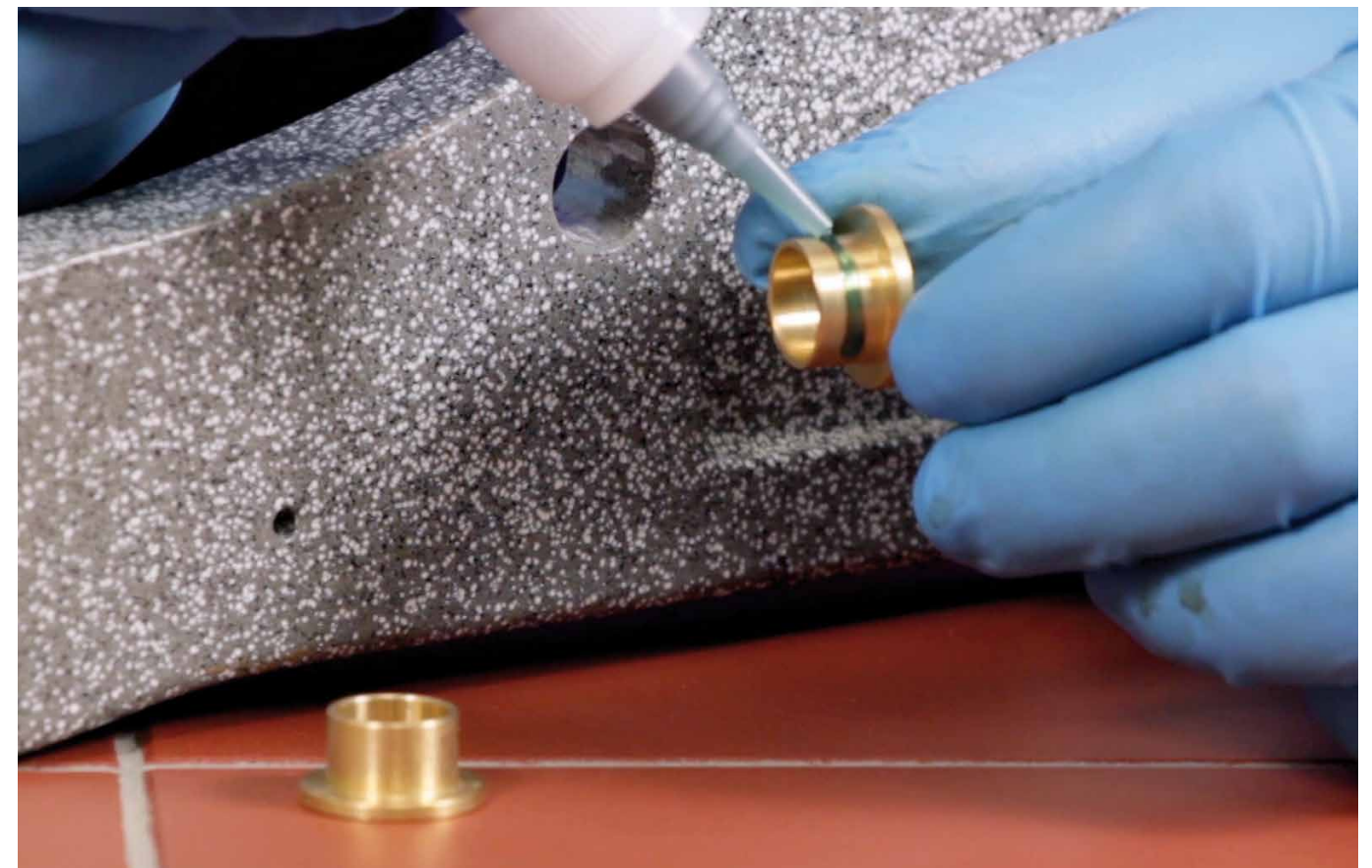
medium viscosity  
high strength  
hard to disassemble

20 ml ✓ 50 ml ✓ 200 ml ✓  
30648020 30648150 30648200



#### Technical Data

Colour	green
For threaded joints up to	M 20
Viscosity at +25°C Brookfield	550 mPa·s
Gap filling capacity max.	0,15 mm
Breakaway strength (Thread)	30 - 35 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm²
Handling strength at room temperature	approx. 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +175°C







Anaerobic Adhesives and Sealants

# Retaining Cylindrical Assemblies



Technical Data

Colour	transparent
For threaded joints up to	M 36 R 1 1/2"
Viscosity at +25°C Brookfield	2.500 - 3.000 mPa·s
Gap filling capacity max.	0,20 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	55 - 70 Nm
Shear strength (DIN 54452)	25 - 35 N/mm²
Handling strength at room temperature	2 - 5 min.
Final strength at room temperature	2 - 4 h
Temperature resistance	-60 up to +150°C



**AN 306-50**

Retaining cylindrical assemblies for bearings, shafts and bushings

higher viscosity  
medium strength  
hard to disassemble

20 ml ✓  
30650020

50 ml ✓  
30650150

200 ml ✓  
30650200

Technical Data

Colour	silver
For threaded joints up to	R 2"
Viscosity at +25°C Brookfield	150.000 - 900.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	35 - 45 Nm
Prevailing strength (Thread)	10 - 20 Nm
Shear strength (DIN 54452)	25 - 35 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +150°C



**AN 306-60**

Assembly of cylindrical parts for worn out bearing rings and bushings

high viscosity  
high strength  
hard to disassemble

50 ml ✓  
30660150

200 ml ✓  
30660200

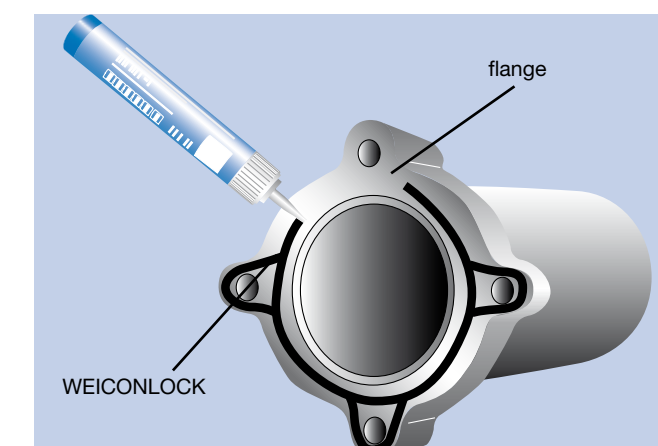


## Anaerobic Adhesives and Sealants

# Flange Sealing and Gasketing

Sealing with solvent-free, liquid WEICONLOCK is an excellent technological solution. Unlike ordinary gaskets (paper, fibre or cork), WEICONLOCK sealant products will always fit the required size. They completely fill the voids of surfaces and guarantees total face-to-face contact.

At low pressures (up to 6 bar), WEICONLOCK provides an instant seal.



Contrary to conventional gaskets, there is no setting of a WEICONLOCK-formed gasket.

Due to high elasticity, WEICONLOCK flange sealants can be used under extreme conditions. Cured WEICONLOCK products are resistant against most chemical media (such as liquids and gases) used in industry.





## Anaerobic Adhesives and Sealants

Flange Sealing  
and Gasketing

## AN 301-72\*

Pipe and flange sealing with PTFE  
marking-free, high temperature resistant  
NSF-/DVGW-approved

higher viscosity  
medium strength  
disassembly with normal tools

50 ml ✓ 200 ml ✓  
30172150 30172200



## Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	15.000 - 60.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	5 - 10 Nm
Prevailing strength (Thread)	4 - 6 Nm
Shear strength (DIN 54452)	5 - 7 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +200°C



\*



## WEICONLOCK® »White Line«

The product AN 301-72 belongs to the new WEICONLOCK »White Line«.

In order to take the increased requirements in the field of health protection and safety at work into account, WEICON now introduces the WEICONLOCK »White Line«.

The new formulas also enable use in sensitive production areas. Three types of the »White Line« have a »white« EC safety data sheet and are therefore marking-free and meet strict requirements of plant physicians.

The new »White Line« has been tested in accordance with the demanding requirements of the NSF/ANSI 61 (American National Standards Institute) for use in the drinking water area. It is therefore in particular suitable for applications in the food, cosmetics and pharmaceuticals sectors. The new WEICONLOCK »White Line« can also be used in all other areas of industry.

This results in the following advantages when using the new WEICONLOCK types:

- NSF drinking water approval in accordance with ANSI 61
- No marking<sup>1</sup> with danger symbols and risk or safety statements of the safety data sheet in accordance with the EC Regulations No. 1907/2006 – ISO 11014-1
- Increased safety at work and health protection
- Excellent resistance to chemicals after curing
- Temperature-resistant up to +200°C<sup>2</sup>

<sup>1</sup> Applies to the types AN 301-43, 301-70 and 301-72  
<sup>2</sup> Applies to the type AN 301-72

## AN 305-10

Gasketing of flanges, gearboxes and other motor housings  
high temperature resistant

high viscosity  
high strength  
hard to disassemble

50 ml ✓ 200 ml ✓  
30510150 30510200



## Technical Data

Colour	orange
For threaded joints up to	---
Viscosity at +25°C Brookfield	70.000 - 300.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	18 - 25 Nm
Prevailing strength (Thread)	15 - 25 Nm
Shear strength (DIN 54452)	5 - 10 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	6 - 12 h
Temperature resistance	-60 up to +200°C

## AN 305-18

Flange sealing for filling large gaps  
immediate sealing effect

high viscosity  
high strength  
hard to disassembly

50 ml ✓ 200 ml ✓  
30518150 30518200



## Technical Data

Colour	red
For threaded joints up to	---
Viscosity at +25°C Brookfield	80.000 - 500.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	12 - 18 Nm
Prevailing strength (Thread)	18 - 24 Nm
Shear strength (DIN 54452)	8 - 13 N/mm²
Handling strength at room temperature	10 - 20 min.
Final strength at room temperature	3 - 6 h
Temperature resistance	-60 up to +200°C



## Anaerobic Adhesives and Sealants

Flange Sealing  
and Gasketing

## AN 305-72

Pipe and flange sealing with PTFE  
immediate sealing effect, DVGW-approval

high viscosity  
medium strength  
disassembly with normal tools

50 ml ✓ 30572150  
200 ml ✓ 30572200



## Technical Data

Colour	white
For threaded joints up to	M 80 R 3"
Viscosity at +25°C Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,40 mm
Breakaway strength (Thread)	7 - 10 Nm
Prevailing strength (Thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm²
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	5 - 10 h
Temperature resistance	-60 up to +150°C

## AN 305-74

Gasketing of flanges, gearboxes and other motor housings

high viscosity  
high strength  
hard to disassemble

50 ml ✓ 30574150  
200 ml ✓ 30574200



## Technical Data

Colour	orange
For threaded joints up to	---
Viscosity at +25°C Brookfield	30.000 - 100.000 mPa·s
Gap filling capacity max.	0,50 mm
Breakaway strength (Thread)	16 - 24 Nm
Prevailing strength (Thread)	5 - 10 Nm
Shear strength (DIN 54452)	5 - 10 N/mm²
Handling strength at room temperature	15 - 30 min.
Final strength at room temperature	approx. 12 h
Temperature resistance	-60 up to +180°C

## AN 305-73

Gasketing of flanges, gearboxes and other motor housings

high viscosity  
low strength  
easy disassembly

50 ml ✓ 30573150  
200 ml ✓ 30573200



## Technical Data

Colour	light green
For threaded joints up to	---
Viscosity at +25°C Brookfield	17.000 - 50.000 mPa·s
Gap filling capacity max.	0,30 mm
Breakaway strength (Thread)	6 - 10 Nm
Prevailing strength (Thread)	2 - 5 Nm
Shear strength (DIN 54452)	4 - 6 N/mm²
Handling strength at room temperature	20 - 40 min.
Final strength at room temperature	approx. 12 h
Temperature resistance	-60 up to +150°C





Anaerobic Adhesives and Sealants

WEICONLOCK®

Technical Data

Type-No.	Application	Features	Colour	For threaded joints up to	Viscosity in mPa·s at +25°C Brookfield	Gap filling capacity in mm max.
 <b>AN 301-43</b>	Threadlocking, DVGW²/NSF approval	medium strength, higher viscosity	blue	M 36	2.000 - 8.000 mt	0,25
 <b>AN 301-70</b>	Threadlocking, NSF approval	high strength, medium viscosity	green	M 25	500 - 900 nt	0,15
 <b>AN 301-72</b>	Pipe and flange sealing (with PTFE), DVGW²/NSF approval	medium strength, high viscosity	white	M 80 R 3"	15.000 - 60.000 ht	0,30
 <b>AN 301-38</b>	Retaining cylindrical assemblies, NSF approval	high strength, medium viscosity	green	M 36	2.000 - 3.000 mt	0,20
 <b>AN 301-48</b>	Retaining cylindrical assemblies, DVGW²/NSF approval	high strength, medium viscosity	green	M 20 R ¾"	450 - 650 nt	0,15
<b>AN 302-21</b>	Threadlocking	low strength, low viscosity	violet	M 12	125	0,10
<b>AN 302-22</b>	Threadlocking	low strength, medium viscosity	purple	M 36	1.000 mt	0,20
<b>AN 302-40</b>	Threadlocking, DVGW²-approval	medium strength, medium viscosity	transparent	M 20 R ¾"	600 nt	0,15
<b>AN 302-41</b>	Threadlocking	medium strength, low viscosity	blue	M 12	125 nt	0,10
<b>AN 302-42</b>	Threadlocking	medium strength, medium viscosity	blue	M 36	1.000 mt	0,20
<b>AN 302-43</b>	Threadlocking, DVGW²/NSF approval	medium strength, higher viscosity	blue	M 36	2.000 - 7.000 mt	0,25
<b>AN 302-50</b>	Threadlocking	high strength, medium viscosity	transparent	M 20 R ¾"	500 nt	0,15
<b>AN 302-60</b>	Threadlocking for passive materials	high strength, medium viscosity	green	M 20 R ¾"	700 - 1.000 nt	0,15
<b>AN 302-62</b>	Threadlocking	solid, higher viscosity	red	M 36	1.500 - 6.500 mt	0,25
<b>AN 302-70</b>	Locking of threads and stud bolts, DVGW²-approval	high strength, medium viscosity	green	M 20 R ¾"	500 nt	0,15
<b>AN 302-71</b>	Locking of threads and stud bolts	high strength, medium viscosity	red	M 20 R ¾"	500 nt	0,15
<b>AN 302-72</b>	Locking of threads and stud bolts, DVGW²-approval	high strength, higher viscosity	red	M 56 R ½"	6.000 - 15.000 mt	0,30
<b>AN 302-90</b>	Threadlocking for locking after assembly	high strength, extrem low viscosity	green	M 5 kapillar	10 - 20	0,07
<b>AN 302-25</b>	Sealing of threaded pipes and fittings	low strength, high viscosity	brown	M 80 R 3"	6.000 - 30.000 mt	0,30
<b>AN 302-45</b>	Sealing of threaded pipes and fittings, DVGW²-approval	medium strength, high viscosity	blue	M 80 R 3"	6.000 - 30.000 mt	0,30
<b>AN 302-75</b>	Sealing of threaded pipes and fittings, BAM³ approval	high strength, high viscosity	green	M 80 R 3"	14.000 - 24.000 mt	0,30
<b>AN 302-77</b>	Sealing of threaded pipes and fittings	high strength, higher viscosity	red	M 36	6.000	0,25
<b>AN 302-80</b>	Sealing of threaded pipes and fittings for passive materials	high strength, higher viscosity	green	M 36	3.000 - 6.000 mt	0,20
<b>AN 305-11</b>	Sealing of threaded pipes and fittings, DVGW² - approval	medium strength, high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40
<b>AN 305-42</b>	Sealant for hydraulic and pneumatic systems, DVGW²-approval	medium strength, medium viscosity	brown	M 20 R ¾"	500 nt	0,15
<b>AN 305-72</b>	Pipe and flange sealing (with PTFE) DVGW²/AGA⁴-approval	medium strength, high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40
<b>AN 305-77</b>	Sealing of threaded pipes and fittings, BAM³/ DVGW²/AGA⁴-approval	medium strength, high viscosity	yellow	M 80 R 3"	24.000 - 70.000 ht	0,50
<b>AN 305-86</b>	Pipe sealing (extra strong)	high strength, higher viscosity	red	M 56 R 2"	6.000 - 7.000 nt	0,30
<b>AN 306-00</b>	Retaining cylindrical assemblies	high strength, medium viscosity	transparent	M 20 R ¾"	500 nt	0,15
<b>AN 306-01</b>	Retaining cylindrical assemblies	high strength, low viscosity	green	M 12	125 nt	0,10
<b>AN 306-03</b>	Retaining cylindrical assemblies	high strength, low viscosity	green	M 12	125 nt	0,10
<b>AN 306-10</b>	Retaining cylindrical assemblies for passive materials	high strength, medium viscosity	green	M 20 R ¾"	700 - 1.000 nt	0,15
<b>AN 306-20</b>	Retaining cylindrical assemblies BAM³/DVGW²/KTW¹approval	high strength, higher viscosity	green	M 56 R 2"	3.000 - 6.000 nt	0,20
<b>AN 306-30</b>	Retaining cylindrical assemblies for passive materials, BAM³ approval	high strength, higher viscosity	green	M 36	3.000 - 6.000 mt	0,20
<b>AN 306-38</b>	Retaining cylindrical assemblies	high strength, medium viscosity	green	M 36	2.500 mt	0,20
<b>AN 306-40</b>	Retaining cylindrical assemblies	high strength, medium viscosity	green	M 20	600 nt	0,15
<b>AN 306-41</b>	Retaining cylindrical assemblies	medium strength, medium viscosity	yellow	M 20	550 nt	0,12
<b>AN 306-48</b>	Retaining cylindrical assemblies, BAM³ approval	high strength, medium viscosity	green	M 20	550 nt	0,15
<b>AN 306-50</b>	Retaining cylindrical assemblies	medium strength, higher viscosity	transparent	M 36 R 1½"	2.500 - 3.000 mt	0,20
<b>AN 306-60</b>	Assembly of cylindrical parts	high strength, high viscosity	silver	R 2"	150.000 - 900.000 ht	0,50
<b>AN 305-10</b>	Flange sealing, AGA⁴ approval	high strength, high viscosity	orange	---	70.000 - 300.000 ht	0,50
<b>AN 305-18</b>	Flange sealing	high strength, high viscosity	red	---	80.000 - 500.000 ht	0,50
<b>AN 305-72</b>	Pipe and flange sealing (with PTFE) DVGW²/KTW¹ approval	medium strength, high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40
<b>AN 305-73</b>	Flange sealing	low strength, high viscosity	light green	---	17.000 - 50.000 ht	0,30
<b>AN 305-74</b>	Flange sealing	high strength, high viscosity	orange	---	30.000 - 100.000 ht	0,50

\*Strength values based on M 10 screws, 8.8 grade, thickness of nut 0,8 d

\*\* Static shear strength based on cylindrical parts of abt. Ø 13 mm, tolerance (D-d) = 0,05 mmm, l/d = 0,88

Breakaway strength N/m (Thread*)	Prevailing strength N/m (Thread*)	Shear-strength** N/mm² (DIN 54452)	Handling strength at room temp. (minute)	Final strength at room temperature (hours)	Temperature resistance
18 - 22	9 - 11	10 - 13	5 - 15	1 - 3	-60°C to +150°C
25 - 35	40 - 50	14 - 20	5 - 15	5 - 10	-60°C to +150°C
5 - 10	4 - 6	5 - 7	15 - 30	6 - 12	-60°C to +200°C
30 - 40	45 - 60	20 - 25	approx. 5	2 - 4	-60°C to +150°C
25 - 30	40 - 55	25 - 30	2 - 6	2 - 4	-60°C to +175°C
7 - 10	3 - 6	4 - 7	10 - 20	3 - 6	-60°C to +150°C
4 - 8	2 - 4	3 - 5	10 - 20	3 - 6	-60°C to +150°C
12 - 16	18 - 24	8 - 12	10 - 20	3 - 6	-60°C to +150°C
10 - 15	12 - 16	8 - 12	10 - 20	approx. 3	-60°C to +150°C
14 - 18	5 - 8	8 - 12	10 - 20	3 - 6	-60°C to +150°C
17 - 22	8 - 12	9 - 13	10 - 20	1 - 3	-60°C to +150°C
30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +175°C
30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +180°C
20 - 25	40 - 55	10 - 15	10 - 20	3 - 6	-60°C to +150°C
28 - 35	50 - 65	15 - 20	10 - 20	3 - 6	-60°C to +150°C
28 - 35	50 - 65	15 - 20	10 - 20	3 - 6	-60°C to +150°C
20 - 30	40 - 75	10 - 15	20 - 40	5 - 10	-60°C to +230°C
15 - 25	30 - 40	8 - 12	5 - 20	approx. 3	-60°C to +150°C
5 - 8	2 - 4	3 - 5	15 - 30	3 - 6	-60°C to +150°C
10 - 15	12 - 18	8 - 12	15 - 30	3 - 6	-60°C to +150°C
40 - 50	40 - 50	15 - 25	15 - 30	3 - 6	-60°C to +150°C
30 - 40	10 - 15	35 - 45	40 - 60	6 - 12	-60°C to +150°C
35 - 45	50 - 70	20 - 30	2 - 5	2 - 4	-60°C to +180°C
7 - 10	2 - 4	4 - 6	20 - 40	5 - 10	-60°C to +150°C
12 - 15	18 - 22	8 - 12	10 - 20	2 - 4	-60°C to +150°C
7 - 10	2 - 4	4 - 6	20 - 40	5 - 10	-60°C to +150°C
18 - 22	10 - 14	6 - 13	15 - 30	1 - 3	-60°C to +150°C
15 - 30	25 - 45	10 - 20	60 - 90	12 - 24	-60°C to +150°C
30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +175°C
25 - 30	50 - 60	18 - 23	10 - 20	2 - 4	-60°C to +150°C
25 - 30	50 - 60	15 - 18	10 - 20	2 - 4	-60°C to +150°C
30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +180°C
28 - 36	40 - 55	15 - 25	20 - 40	approx. 24	-60°C to +200°C
35 - 45	50 - 70	20 - 30	2 - 5	2 - 4	-60°C to +180°C
35 - 45	50 - 70	25 - 30	approx. 5	1 - 3	-60°C to +150°C
20 - 30	30 - 40	15 - 30	approx. 240	approx. 24	-60°C to +200°C
12 - 15	17 - 22	8 - 12	10 - 20	3 - 6	-60°C to +150°C
30 - 35	55 - 70	25 - 35	approx. 5	2 - 4	-60°C to +175°C
35 - 45	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +150°C
35 - 45	10 - 20	25 - 30	15 - 30	3 - 6	-60°C to +150°C
18 - 25	15 - 25	5 - 10	15 - 30	6 - 12	-60°C to +200°C
12 - 18	18 - 24	8 - 13	10 - 20	3 - 6	-60°C to +200°C
7 - 10	2 - 4	4 - 6	20 - 40	5 - 10	-60°C to +150°C
6 - 10	2 - 5	4 - 6	20 - 40	approx. 12	-60°C to +150°C
16 - 24	5 - 10	5 - 10	15 - 30	approx. 12	-60°C to +180°C

**WEICONLOCK (Cured)**

- Admissible surface pressure for high-strength types
- E-Modul 1) for high-strength types
- Coefficient of elongation
- Coefficient of therm conductivity
- Specific forward resistance
- Dielectric coefficient (50 Hz - 1 MHz)
- Dielectric strength
- Temperature of decomposition
- Chemically resistant against water, oil, fuel, organic solvents, refrigerants, gases

**WEICONLOCK (Liquid)**

- Density
- pH-value
- Flashpoint (ISO 2592)
- Vapour pressure at +25°C
- Solubility
- Storage life at +20°C

1) KTV Inst. Technisches Zentrum Wasser (TZW Karlsruhe) for use in drinking water supply systems  
2) DVGW Certificate for use in gas supply and hot water systems  
3) BAM Approval (Bundesanstalt für Materialforschung und -prüfung BAM) for use as sealant for gas supply systems for gaseous oxygen up to max. +60°C operating temperature and 10 bar pressure  
4) Austrian Gas Association - Approval - Gas Class II 500 kPa

We do not recommend WEICONLOCK for long-term use on connections of copper and its alloys if exposed to water at more than +60°C.

All recommendations and technical data are based on laboratory tests and extensive experience by users. They have been compiled with greatest care but we take no warranty of any kind and accept no liability for the results obtained.

\* lt = low thixotrope  
mt = medium thixotrope  
ht = high thixotrope