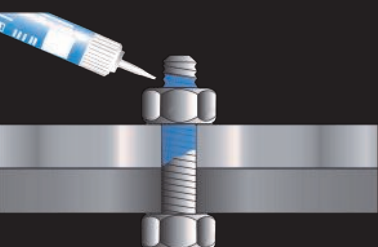


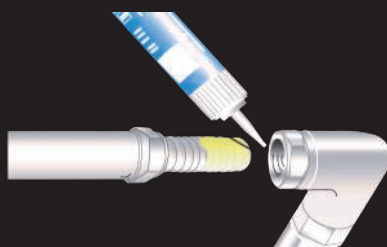


Associated Gaskets

# Weiconlock Adhesives for Locking and Sealing Applications



Threadlocking



Pipe and Thread  
Sealing



Retaining Cylindrical  
Assemblies



Flange Sealing and  
Gasketing

# About AG

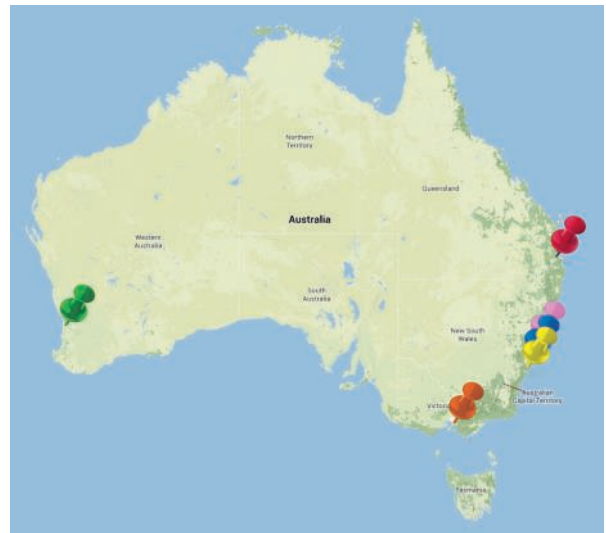
Founded in 1965 and 100% Australian owned, Associated Gaskets has a long standing reputation in Australian industry for providing high quality products and exemplary service. As our range of products has continued to expand over the years, our focus remains on providing the very best service possible.

Today, AG offers a truly comprehensive range of gaskets, seals, thermal and electrical insulation, adhesives and sealants, technical sprays, liquids and industrial tapes. We couple this enormous range with extensive fabrication facilities and large stock holdings spread amongst our 6 locations; Brisbane, Melbourne, Perth, Wollongong, Newcastle and our Sydney head office.

If you would like any more information on any of the high quality adhesives in this guide, or any other product in AG's versatile range, please don't hesitate to contact your local AG branch.

## Industries Served

- Agricultural
- Automotive
- Chemical & Petro-Chemical
- Construction
- Defence & Aerospace
- Electric Motor Rewinders & OEMs
- Electronics
- Engineering
- Food & Beverage
- Manufacturing
- Marine & Shipbuilding
- Metallurgical
- Mining
- Oil & Gas
- Paper, Pulp & Board
- Pharmaceutical
- Power Generation & Transmission
- Renewable Energy
- Switchboard Manufacture & Repair
- Tradespeople
- Transformer Manufacture & Repair
- Transport
- Water & Waste
- & Many, Many More...



## Services Offered

- 3D Modelling & Drawing
- Die Cutting
- Extrusions
- Individualised Documentation
- Inventory Management
- Kiss Cutting
- Kits & Custom Packaging
- Laser Cutting
- Machining
- Moulding
- Product Coding & Traceability
- Rapid-Prototyping
- Sample Reproduction
- Sewing
- Shut Down Services
- Slitting
- Thicknessing
- Water Cutting
- & Many More...



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## Weiconlock Anaerobic Adhesives

Weiconlock are high quality anaerobic adhesives and sealants that are based on methacrylate resins. These easy to use sealants have been specially designed for use in threadlocking as well as pipe sealing, cylindrical assembly sealing and gasketing applications.

All grades in the comprehensive Weiconlock range share one common trait, they cure only when in contact with metal while being deprived of air. Once cured they provide a shock and vibration resistant seal that prevents leaks and exhibits good resistance to many chemicals and solvents.

Because Weiconlock adhesives are liquids, they completely fill gaps in threaded connections to provide protection against not only leakage, but also fretting corrosion.

### Special Features and Benefits

All grades of Weiconlock are simple and easy to use as well as being very economical. Handling strength is typically achieved in just a few minutes with final strength being reached after a few hours at room temperature. Since they are one-part adhesives, there's no mixing involved and no pot-life so that product wastage is minimised.

By using Weiconlock, you...

- Avoid expensive down time
- Reduce production costs
- Improve operation reliability
- Reduce assembly time

## Applications

The full Weiconlock range includes over 40 grades which vary by colour, viscosity, cure strength, metal compatibility, available sizes and more. Though the sheer breadth of options may be a little daunting, it does ensure that there's a grade of Weiconlock that will be perfect for your thread, pipe or assembly locking application.

Weiconlock Anaerobic Adhesives are used for:

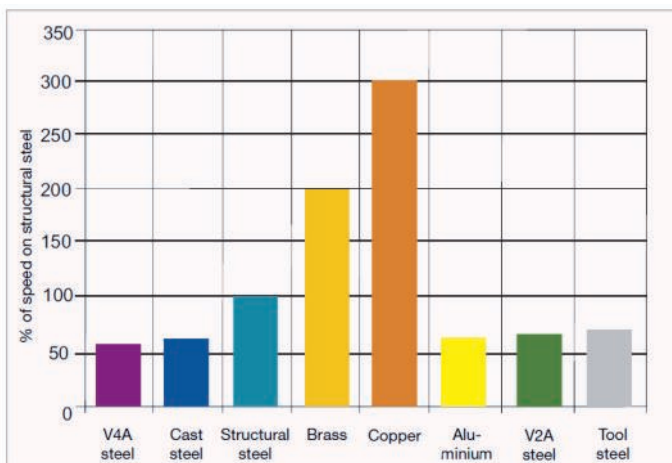
- Locking, fastening and sealing of screw connections from M5 to M80
- Locking and sealing metallic pipe joints
- Reliable retaining of bearings, bushings, bolts and either press or slip fitted connections
- Sealing and locking hydraulic and pneumatic pipe connections

In addition, Weiconlock Anaerobic Adhesives are often used as a substitute for traditional gaskets in situations where flanges are closely mated.

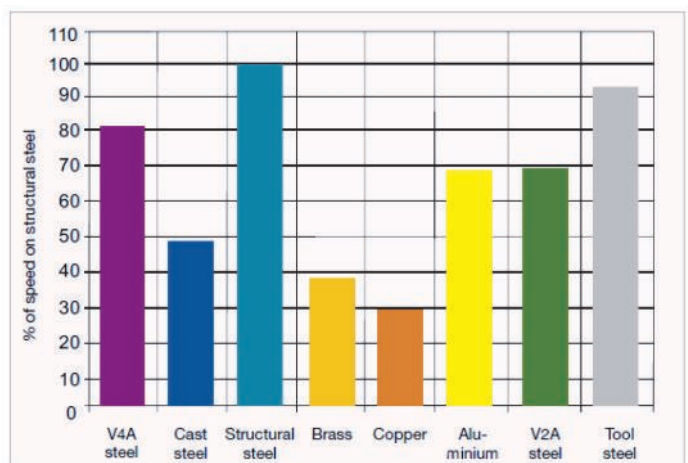
There's a Weiconlock grade suitable for all metals and even some plastics. As economical, simple and reliable sealants these adhesives are used in a wide variety of industries all over the world. These include:

- Automotive
- Equipment and Facility Maintenance
- Pump and Pipe Fitting, Repair and Manufacture
- Hydraulic and Pneumatic Equipment
- Precision Mechanics
- Electrical Devices, Motors and Transformers
- Marine, Aerospace and Transport

**General Curing Speed of Weiconlock for Various Material Types**



**Compression Shear Strength of Weiconlock for Various Metals (DIN 544521)**





## General Application Information

### Pre-treatment of the Surface

In general, Weiconlock does not require special surface pre-treatment as slightly oily surfaces will be tolerated. That said, for optimum bonding result, it is suggested that surfaces be cleaned and degreased (with Weicon Cleaner S). If required, the parts being bonded should be slightly roughened.

### Application

As soon as it's opened, Weiconlock is ready to use and should be applied direct from the bottle or tube with the dispensing tip (be careful to avoid direct contact of the tip with metal). On press-fitted parts and larger cylindrical assemblies a thin uniform layer should be applied on both surfaces. When bonding threaded blind holes fill the bore hole with a sufficient quantity. On screws and bolts apply Weiconlock around the thread.

Do not pour back into the bottle any Weiconlock fluid which has had contact with metal; even the smallest metal particles will cause the contents of the bottle to cure once it's sealed.

Weiconlock is available in three broad strength categories:

#### Low Strength

Easy Dismantling

#### Medium Strength

Can be dismantled with normal tools

#### High Strength

Cannot be dismantled mechanically except through destruction.

### Active and Passive Materials

Weiconlock Anaerobic Adhesives cure far faster when used with active materials than passive. Examples of each are included below:

#### Active Materials

Fast Curing

- Bronze
- Iron
- Copper
- Brass
- Steel

#### Passive Materials

Slow Curing

- High Alloyed Steel
- Aluminium, Nickel, Zinc, Gold
- Oxide Layers
- Chromate Layers
- Anodic Coatings
- Plastics and Ceramics

### Weiconlock Activator F

The cure time of Weiconlock can be considerably reduced by pre-treating surfaces with Weiconlock Activator F. If sealing passive materials, bonding in low temperatures (below +10°C) or sealing large gaps, this product is indispensable.

On non-metallic surfaces, Weiconlock adhesives are made effective by use of Weiconlock Activator.

This easy to use activator is available in spray and liquid form.

For applications that involve passive materials but using the activator is something you'd like to avoid, a possible solution could be Weiconlock grades AN302-60, AN 302-80, AN 306-10 and AN 306-30. These special grades reach handling strength much quicker than any other grade (without activator).

### Cure

Weiconlock remains liquid as long as it is in contact with air. The cure starts when Weiconlock, between the two surfaces, comes into contact with metal in the absence of air. The cure time depends on the grade, ambient temperature and the material.

### Dismantling

Connections made with low or medium strength grades can be easily loosened with ordinary tools. Bonds made using high strength grades can be dismantled by heating the parts to at least 300°C. Cured residues of Weiconlock can be removed mechanically or by using Weicon Sealant and Adhesive Remover.

### Storage

Weiconlock can be stored in its 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 prevents curing.

### Safety Precautions

Weiconlock adhesives and sealants generally do not cause allergic reactions or irritations. However, in isolated cases where skin is bruised or micro-lacerated sensitisation may occur. As a result, extensive direct contact should be avoided. It is strongly suggested that all users familiarise themselves with the SDS (available from AG) for a particular grade prior to use.

# Weiconlock Anaerobic Adhesives Chemical Resistance Post Cure

acetaldehyde	+	copper chloride	+	ketones	+	river water	+
acetate solvent	+	copper sulphate	+	lithium chloride	+	sewage	+
acetic acid 10%	%+	cold salt water	+	maleic	+	seawater	+
acetic acid 80%	%0	developer fluid	+	melamine resin	+	silicone oils	+
acetone	+	dichloroethyl ether	+	methane	+	sodium hydroxide 20% hot	%0
alcohols	+	diethyl ether	+	methylamine	+	sodium hydroxide 20% cold	%+
alkaline solution	+	diglycolic	+	methyl ethyl ketone	+	sodium hydroxide 50% hot	%-
ammoniac anhydride	-	dioxane - dry	+	methyl acetate	+	sodium hydroxide 50% cold	%0
ammonium hydroxide	0	drinking water	+	mineral oil, white	+	sodium hydroxide 70% hot	%-
amyl acetate	+	emulsified oils	+	mine water	+	sodium hydroxide 70% cold	%0
aniline	+	ethyl acetate	+	naphtha	+	sorbitol	+
aromatic gasoline	+	ethylenediamine	+	nappthalene	+	steam sterilization	+
aromatic solvent	+	ethylene dichloride	+	nitric acid	%+	styrene	+
ash slurry	+	ethylene glycol	+	oils	+	sulfones	+
barium sulphate	+	fatty acids	+	oxalic acid	+	sulfonic acids 10%	%+
battery acid 10%	%+	ferrous sulphate	+	paraffin oil, kerosene	+	<i>sulphuric acid 75%</i>	%0
benzene	+	formaldehyde - cold	+	perchloroethylene dry	+	sulphuric acids 75-100%	%-
benzoic acid	+	formic acid (cold)	+	perchloric acid 10%		sulphurous acid	0
boric acid	+	freon	+	permanganic	-	turpentine	+
brake fluid	+	fuel oil	+	peroxide bleach	+	thiourea	+
butadiene	+	fuming nitric acid	-	peroxide	-	toluene, methylbenzene	+
butyric acid 10%	%+	fuming sulphuric acid	-	peroxymonosulfuric acid 10%	%+	tricholoethane	+
butyraldehyde	+	gasoline	+	phenol	+	trichloromethane	+
butylamine	+	glycolic acid	+	phenolic resins	+	trioxane	+
butyl acetate	+	glycerine	+	phosphoric acid 10% hot	0	vapour pressure - low	+
butyl chloride	+	grease lubrication	+	phosphoric acid 10% cold	+	vaseline	+
cadmium sulphate	+	hydrogen bromide (10%)	%+	phosphoric acid 50% hot	0	vinyl acetate	+
castor oil	+	hydrocyanic acid (10%)	%+	phosphoric acid 50% cold	0	wax	+
cellulose acetate	+	hydrogen	+	phosphoric acid 85% hot	-		
chlorine - dry	-	hydrogen peroxide concentrate	0	phosphoric acid 85% cold	0		
chlorine alcohol	+	hydrofluoric acid	-	phthalic	+		
<i>chloramine</i>	+	heptane	+	potash alum	+		
<i>chlorine dioxide</i>	0	hydrazine	+	potassium acetate	+		
<i>chlorinated hydrocarbon</i>	+	hydrochloric acid	0	potassium hydroxide	-		
<i>chloroform - dry</i>	+	isocyanate resin	+	pyridine	+		
<i>coal tar</i>	+	isooctane	+	quinone	+		

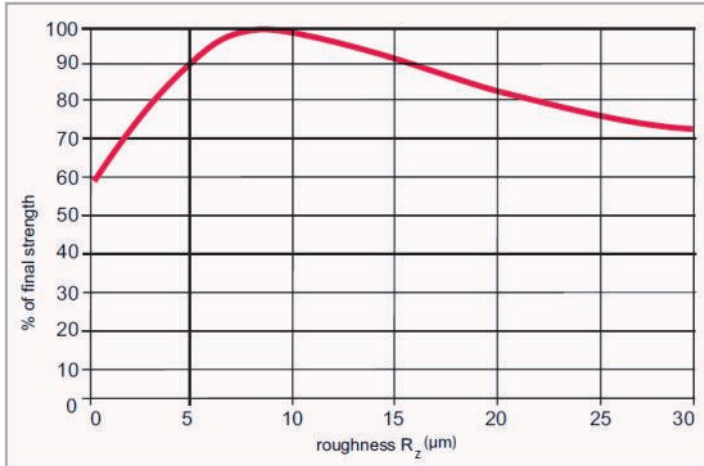
+ = Good Resistance

0 = Preliminary Tests of Resistance are Suggested

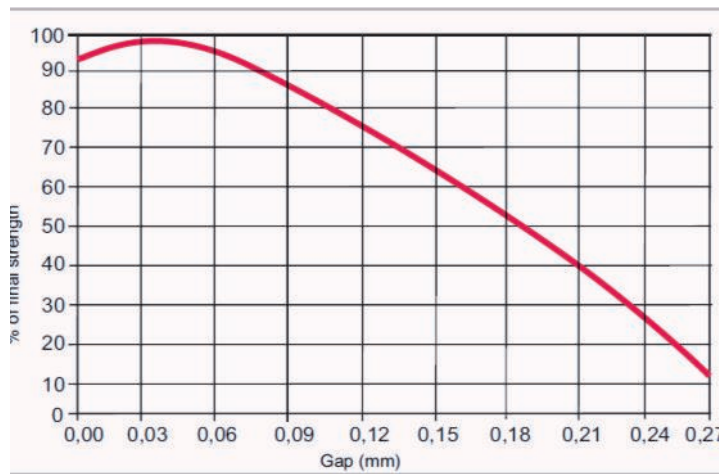
% = Weiconlock Products are resistant only up to the indicated concentration

- = Weiconlock Products are not suitable or may be used only after preliminary tests are conducted

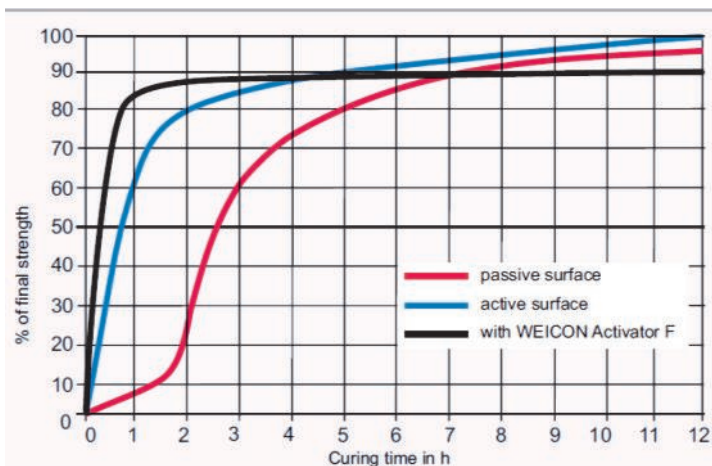
### Strength of Weiconlock Depending on Roughness of Surface



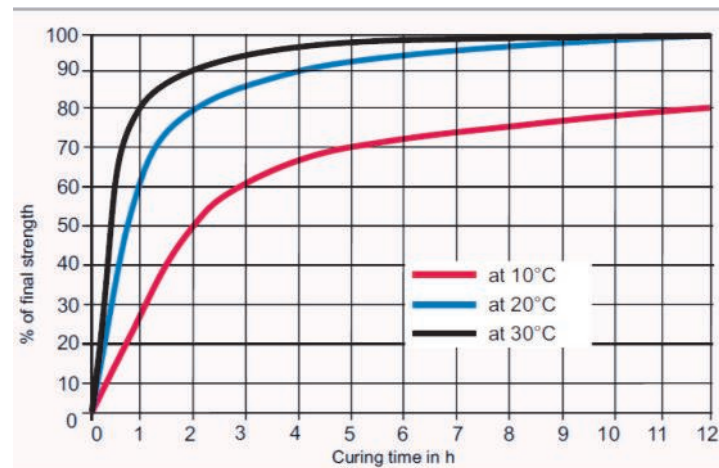
### Strength of Weiconlock Depending on Size of Bonding Gap



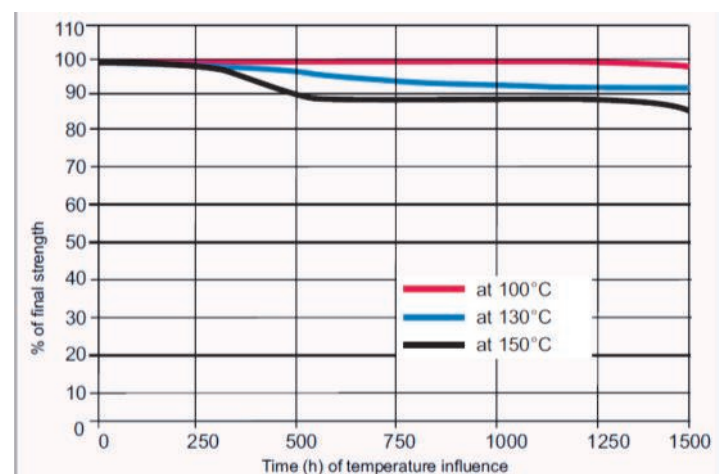
### General Curing Speed with Weiconlock Activator F



### Curing Speed of Weiconlock at Different Ambient Temperatures



### Long Term Temperature Resistance of Weiconlock

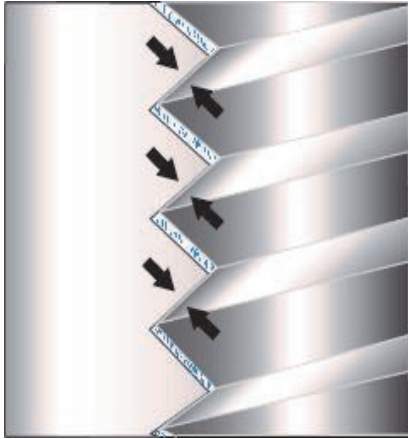


## Weiconlock for Threadlocking

### Threadlocking

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

The goal is to prevent the self-loosening or unscrewing of the bolt.



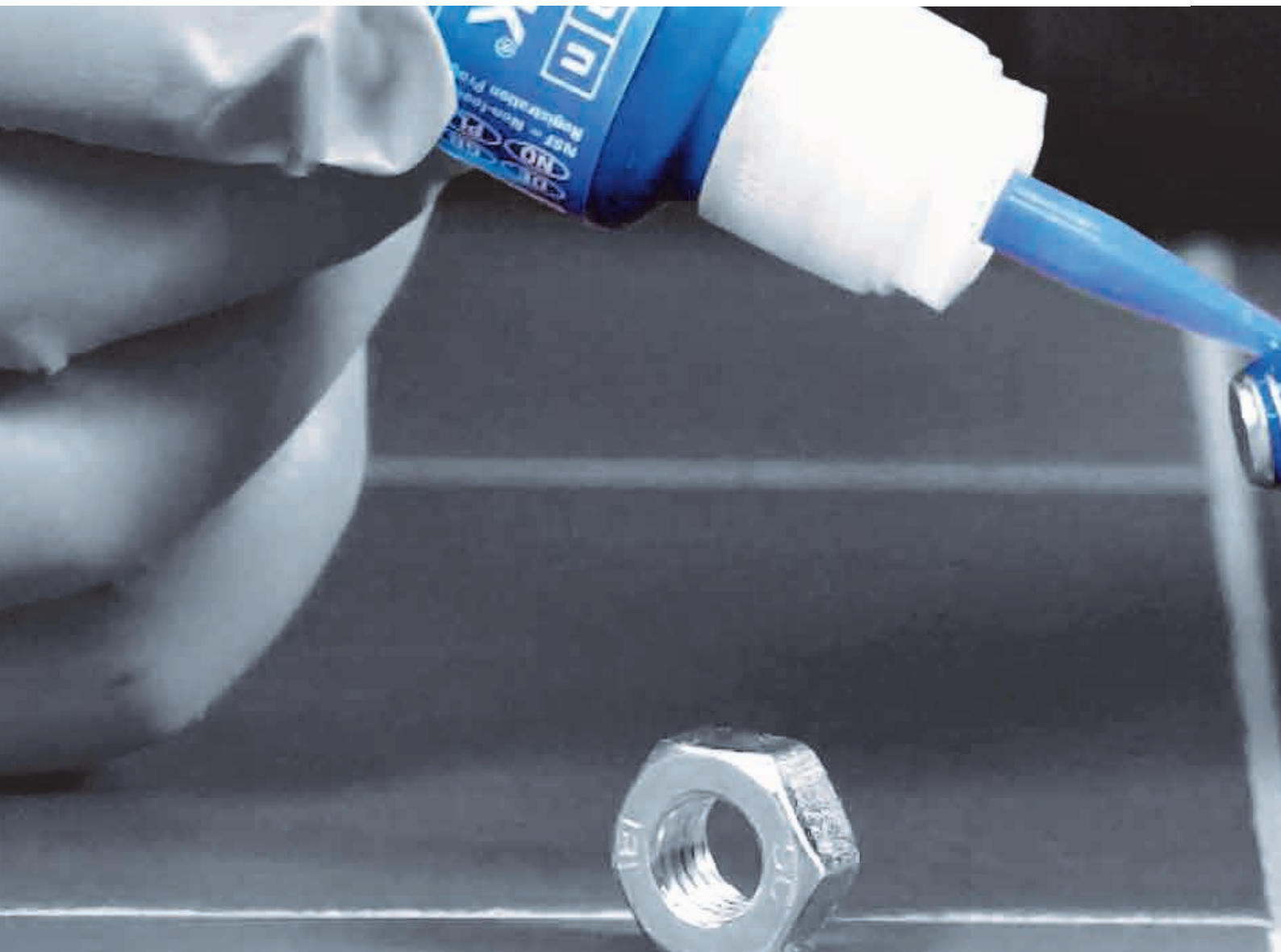
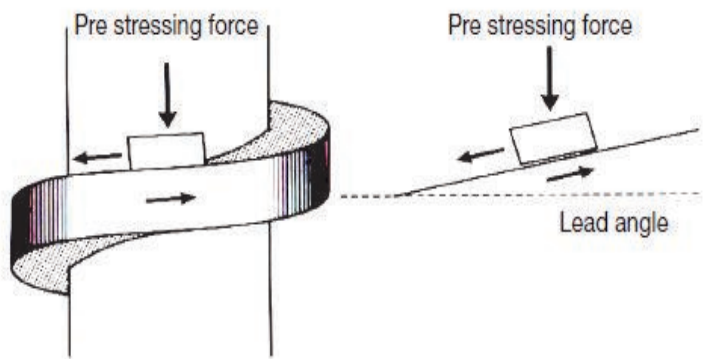
Assembly with pre-stressing

### Potential Causes of Screw Failure

**Setting:** Rough surfaces of the screw can be flattened by the pressure of the pre-stressing force.

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

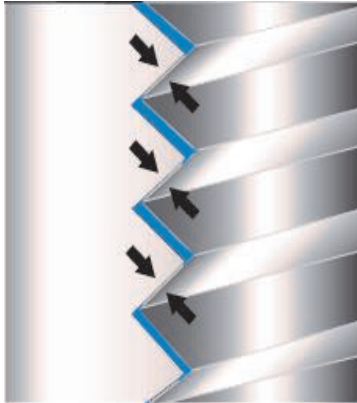
**Temperature Variations:** Expansion of the material at high temperatures and contraction at low.



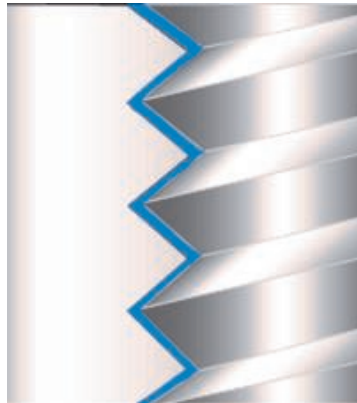


## Weiconlock for Threadlocking

As a liquid adhesive, Weiconlock fills up the microscopic gaps between the threads to create a material connection. This ensures there is no tolerances, movement or setting which results in no loosening or unscrewing of the thread.



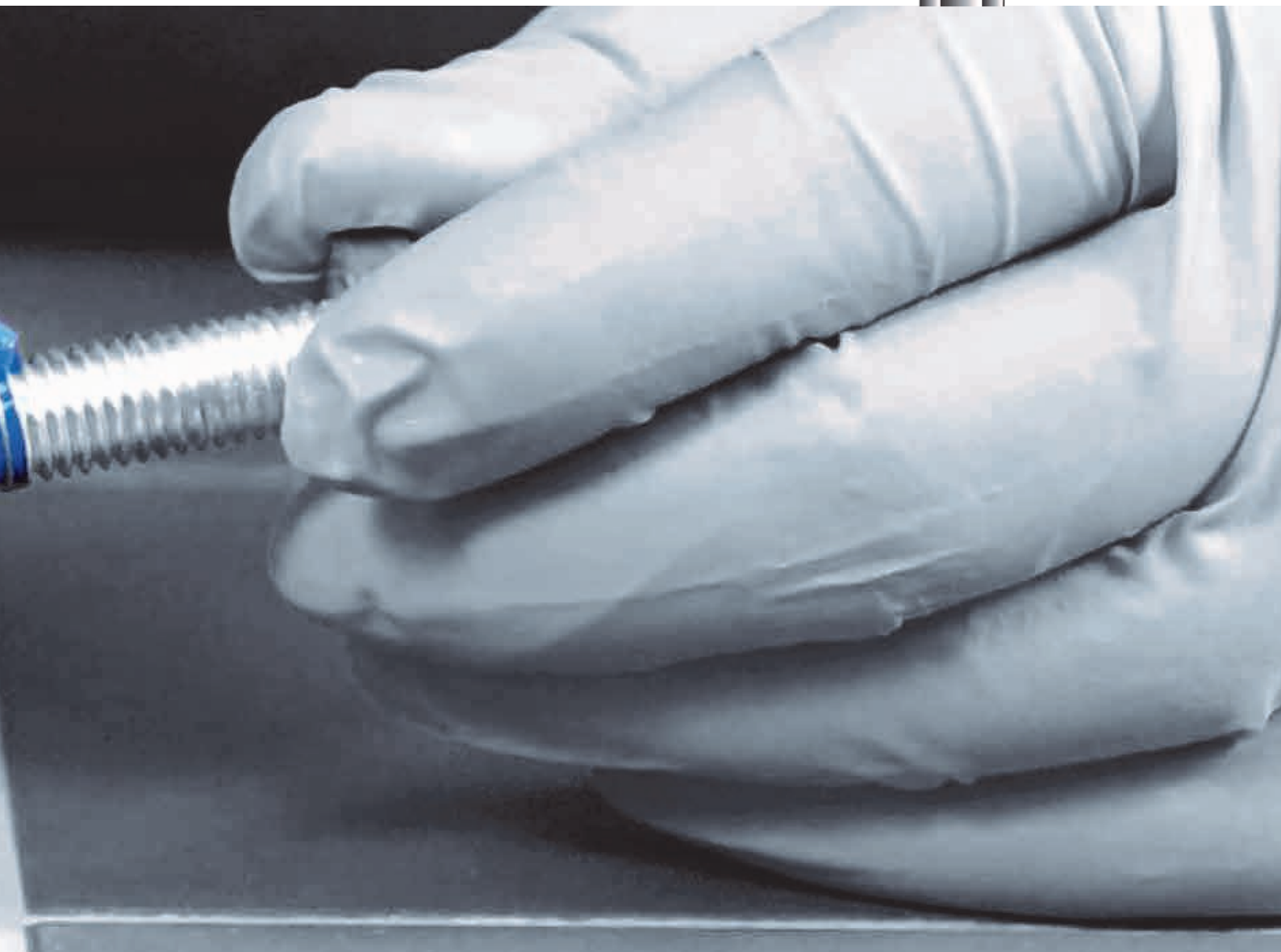
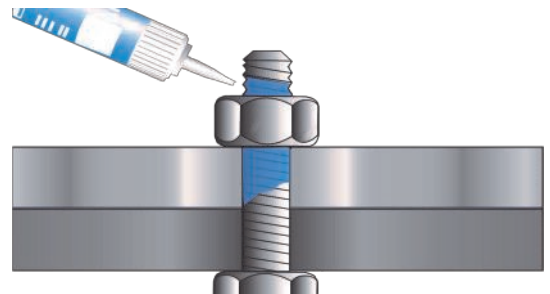
Assembly with pre-stressing



Floating assembly

Unlike 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. Because voids are completely filled by Weiconlock, fretting corrosion is also prevented.

As a result of its excellent sealing properties, Weiconlock enables the use of through holes instead of blind tapped holes and works to ensure specific clamp loadings. Even slightly oily fasteners can be locked although optimum strength will be achieved on cleaned and degreased parts (we suggest Weicon Cleaner S or Surface Cleaner).



## Weiconlock for Threadlocking

### The Weiconlock White Line

Weiconlock styles AN 301-43 and AN 301-70 are part of the new Weiconlock White Line of anaerobic adhesives. These special grades are designed specifically to meet the stringent regulations that govern production and maintenance in the food, beverage, pharmaceutical and healthcare sectors.

All grades in the Weiconlock White Line:

- Are NSF Approved for drinking water applications in accordance with the stringent requirements of ANSI 61.
- Exhibit excellent resistance to a wide range of chemicals once fully cured.
- Can be supplied with a safety data sheet that fully complies with the requirements of EC Regulation No. 1907/2006 - ISO 11014-1.

In addition, many of the grades in the White Line (including AN 301-43 and AN 301-70) are non-marking which makes them especially suitable for use in areas that must remain completely clean at all times.



### Weiconlock AN 301-43

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
Non-Marking, NSF and DVGW Tested*



#### Technical Data

Colour	Blue
For threaded joints up to	M36
Viscosity at 25°C Brookfield	2,000 - 8,000 mPa
Maximum gap filling capacity	0.25mm
Breakaway strength (thread)	18 - 22 Nm
Prevailing strength (thread)	9 - 11 Nm
Shear strength (DIN 54452)	10 - 13 N/mm <sup>2</sup>
Handling strength at room temperature	5 - 15 minutes
Final strength at room temperature	1 - 3 hours
Temperature Resistance	-60°C to +150°C



#### Available Sizes

20ml

50ml

200ml



# Weiconlock for Threadlocking

## Weiconlock AN 301-70

*Medium Viscosity, High Strength,  
Hard to Disassemble,  
Non-Marking, NSF Tested*



20ml

50ml

200ml

### Technical Data

Colour	Green
For threaded joints up to	M25
Viscosity at 25°C Brookfield	500 - 900 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	25 - 35 Nm
Prevailing strength (thread)	40 - 50 Nm
Shear strength (DIN 54452)	14 - 20 N/mm <sup>2</sup>
Handling strength at room temperature	5 - 15 minutes
Final strength at room temperature	5 - 10 hours
Temperature Resistance	-60°C to +150°C



### Available Sizes

## Weiconlock AN 302-21

*Low Viscosity, Low Strength,  
Easy to Disassemble,  
Vibration Proof*



20ml

50ml

200ml

### Technical Data

Colour	Violet
For threaded joints up to	M12
Viscosity at 25°C Brookfield	125 mPa
Maximum gap filling capacity	0.1mm
Breakaway strength (thread)	7 - 10 Nm
Prevailing strength (thread)	3 - 6 Nm
Shear strength (DIN 54452)	4 - 7 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



### Available Sizes



## Weiconlock for Threadlocking

### Weiconlock AN 302-22

*Medium Viscosity, Low Strength,  
Easy to Disassemble,  
Vibration Proof*



#### Technical Data

Colour	Purple
For threaded joints up to	M36
Viscosity at 25°C Brookfield	1,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	4 - 8 Nm
Prevailing strength (thread)	2 - 4 Nm
Shear strength (DIN 54452)	3 - 5 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



#### Available Sizes

20ml      50ml      200ml

### Weiconlock AN 302-40

*Medium Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
Vibration Proof, DVGW Tested*



#### Technical Data

Colour	Transparent
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	600 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	12 - 16 Nm
Prevailing strength (thread)	18 - 24 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



#### Available Sizes

20ml      50ml      200ml





# Weiconlock for Threadlocking

## Weiconlock AN 302-41

*Low Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
Vibration Proof*



20ml

50ml

200ml

### Technical Data

Colour	Blue
For threaded joints up to	M12
Viscosity at 25°C Brookfield	125 mPa
Maximum gap filling capacity	0.1mm
Breakaway strength (thread)	10 - 15 Nm
Prevailing strength (thread)	12 - 16 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 hours (approx.)
Temperature Resistance	-60°C to +150°C



### Available Sizes

## Weiconlock AN 302-42

*Medium Viscosity, Medium Strength,  
Disassembly with Normal Tools*



20ml

50ml

200ml

### Technical Data

Colour	Blue
For threaded joints up to	M36
Viscosity at 25°C Brookfield	1,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	14 - 18 Nm
Prevailing strength (thread)	5 - 8 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



### Available Sizes

## Weiconlock for Threadlocking

### Weiconlock AN 302-43

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
NSF, KTW and DVGW Tested*



#### Available Sizes

10ml    20ml    50ml    200ml

#### Technical Data

Colour	Blue
For threaded joints up to	M36
Viscosity at 25°C Brookfield	2,000 - 7,000 mPa
Maximum gap filling capacity	0.25mm
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 minutes
Final strength at room temperature	1 - 3 hours
Temperature Resistance	-60°C to +150°C



### Weiconlock AN 302-50

*Medium Viscosity, High Strength,  
Hard to Disassemble, Transparent*

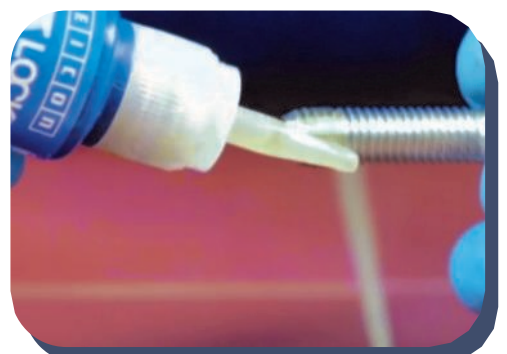


#### Available Sizes

20ml    50ml    200ml

#### Technical Data

Colour	Transparent
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	500 mPa
Maximum gap filling capacity	0.15mm
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 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +175°C



# Weiconlock for Threadlocking

## Weiconlock AN 302-60

*Medium Viscosity, High Strength,  
Hard to Disassemble, Designed for  
Passive Materials*



### Technical Data

Colour	Green
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	700 - 1,000 mPa
Maximum gap filling capacity	0.15mm
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 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +180°C

### Passive Materials

High-Alloyed Steel	Aluminium, Nickel, Zinc, Gold
Oxide Layers	Chromate Layers
Anodic Coatings	Plastics and Ceramics

### Available Sizes

20ml	50ml	200ml
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## Weiconlock AN 302-62

*High Viscosity, High Strength,  
Hard to Disassemble*



### Technical Data

Colour	Red
For threaded joints up to	M36
Viscosity at 25°C Brookfield	1,500 - 6,500 mPa
Maximum gap filling capacity	0.25mm
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 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

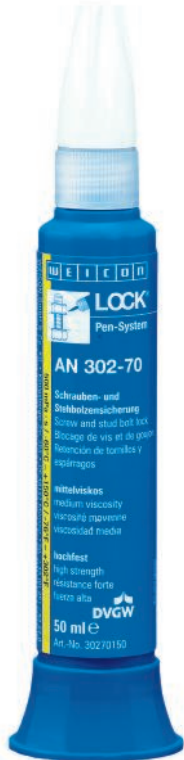
20ml	50ml	200ml
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## Weiconlock for Threadlocking

### Weiconlock AN 302-70

*Medium Viscosity, High Strength,  
Hard to Disassemble, DVGW Tested*



#### Technical Data

Colour	Green
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	500 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	28 - 35 Nm
Prevailing strength (thread)	50 - 65 Nm
Shear strength (DIN 54452)	15 - 20 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C

#### Available Sizes

10ml    20ml    50ml    200ml



### Weiconlock AN 302-71

*Medium Viscosity, High Strength,  
Hard to Disassemble*

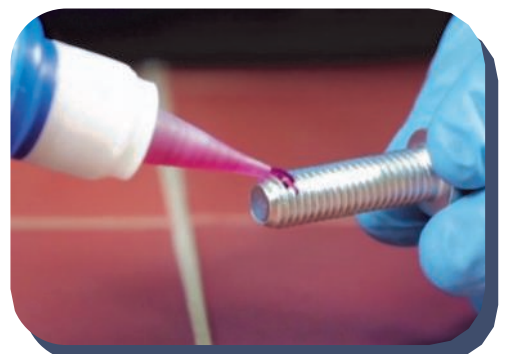


#### Technical Data

Colour	Red
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	500 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	28 - 35 Nm
Prevailing strength (thread)	50 - 65 Nm
Shear strength (DIN 54452)	15 - 20 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C

#### Available Sizes

10ml    20ml    50ml

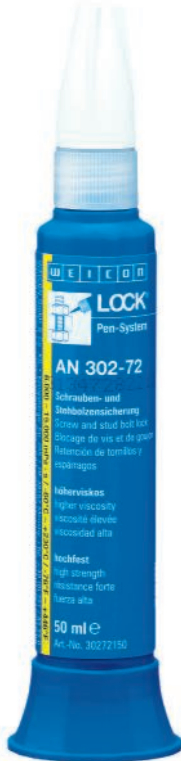




# Weiconlock for Threadlocking

## Weiconlock AN 302-72

*High Viscosity, High Strength,  
Hard to Disassemble,  
High Temperature Grade, DVGW Tested*

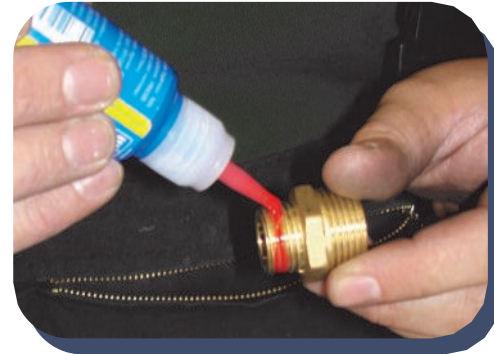


### Technical Data

Colour	Red
For threaded joints up to	M56 / R1/2"
Viscosity at 25°C Brookfield	6,000 - 15,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	20 - 30 Nm
Prevailing strength (thread)	40 - 75 Nm
Shear strength (DIN 54452)	10 - 15 N/mm <sup>2</sup>
Handling strength at room temperature	20 - 40 minutes
Final strength at room temperature	5 - 10 hours
Temperature Resistance	-60°C to +230°C

### Available Sizes

20ml 50ml 200ml



## Weiconlock AN 302-90

*Low Viscosity, High Strength,  
Hard to Disassemble, For Locking After  
Mounting and Sealing of Hair Cracks*



### Technical Data

Colour	Green
For threaded joints up to	M5
Viscosity at 25°C Brookfield	10 - 20 mPa
Maximum gap filling capacity	0.07mm
Breakaway strength (thread)	15 - 25 Nm
Prevailing strength (thread)	30 - 40 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	5 - 20 minutes
Final strength at room temperature	3 hours (approx.)
Temperature Resistance	-60°C to +150°C

### Available Sizes

20ml 50ml 200ml



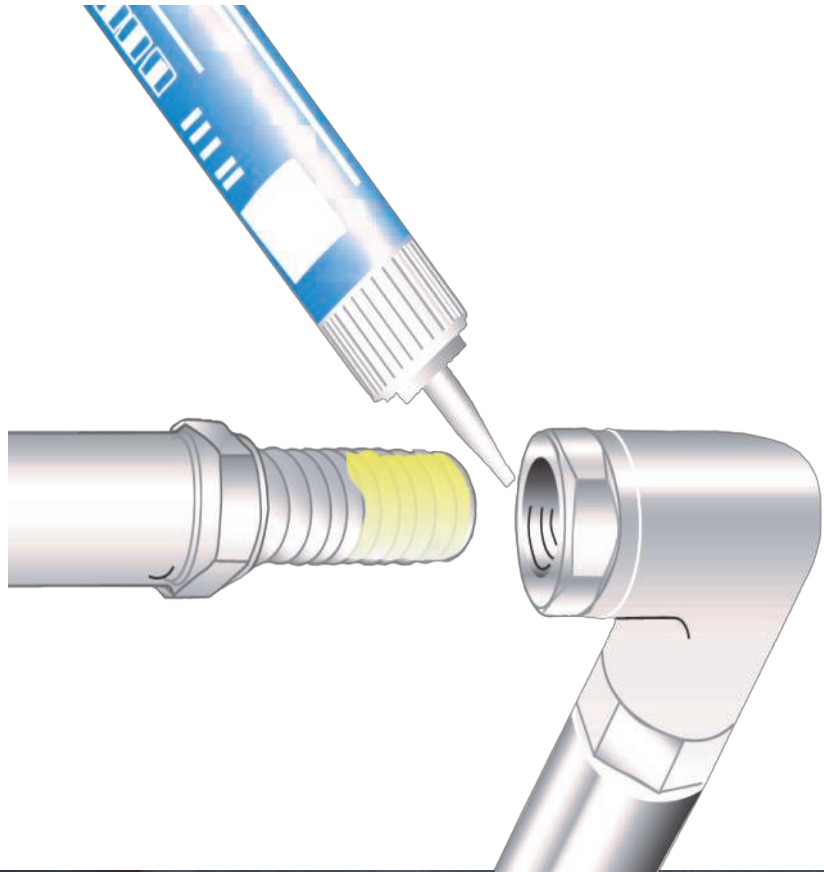
## Weiconlock for Pipe and Thread Sealing

Part of the larger Weiconlock range, Weiconlock for pipe and thread sealing applications have been specially formulated to seal and prevent the escape of gases or liquids.

These grades of Weiconlock combine excellent chemical resistance with the ability to maintain their long-lasting seal right up to bursting point or, deliberate disassembly.

The use of Weiconlock Pipe and Thread Sealing anaerobic adhesives prevents clogging and contamination of fittings as well as the blocking of hydraulic or pneumatic valves which may occur with other sealing methods such as PTFE tape.

Connections sealed with Weiconlock are protected against seizing and corrosion while the unique Weicon Pen System allows easy, accurate application.



# Weiconlock for Pipe and Thread Sealing

## Weiconlock AN 302-25

*High Viscosity, Low Strength,  
Easy to Disassemble,  
Vibration Proof for Coarse Threads*



### Technical Data

Colour	Brown
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	6,000 - 30,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	5 - 8 Nm
Prevailing strength (thread)	2 - 4 Nm
Shear strength (DIN 54452)	3 - 5 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

50ml 200ml



## Weiconlock AN 302-45

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
Coarse Thread Sealing, DVGW Tested*



### Technical Data

Colour	Blue
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	6,000 - 30,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	10 - 15 Nm
Prevailing strength (thread)	12 - 18 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



### Available Sizes

50ml 200ml





## Weiconlock for Pipe and Thread Sealing

### Weiconlock AN 302-75

*High Viscosity, High Strength,  
Hard to Disassemble,  
BAM Certified*



#### Technical Data

Colour	Green
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	14,000 - 24,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	40 - 50 Nm
Prevailing strength (thread)	40 - 50 Nm
Shear strength (DIN 54452)	12 - 25 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



#### Available Sizes

50ml

200ml

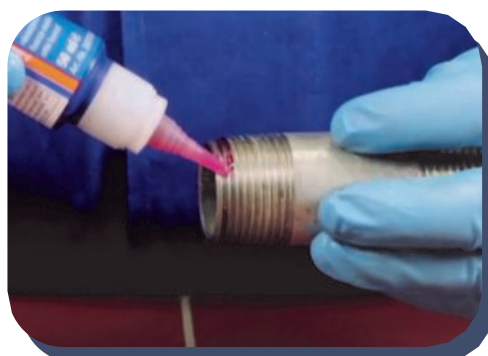
### Weiconlock AN 302-77

*High Viscosity, High Strength,  
Hard to Disassemble*



#### Technical Data

Colour	Red
For threaded joints up to	M36
Viscosity at 25°C Brookfield	6,000 mPa
Maximum gap filling capacity	0.25mm
Breakaway strength (thread)	30 - 40 Nm
Prevailing strength (thread)	10 - 15 Nm
Shear strength (DIN 54452)	35 - 45 N/mm <sup>2</sup>
Handling strength at room temperature	40 - 60 minutes
Final strength at room temperature	6 - 12 hours
Temperature Resistance	-60°C to +150°C



#### Available Sizes

50ml

200ml



# Weiconlock for Pipe and Thread Sealing

## Weiconlock AN 302-80

*High Viscosity, High Strength,  
Hard to Disassemble, Pipe and Thread  
Sealing for Passive Materials*



### Technical Data

Colour	Green
For threaded joints up to	M36
Viscosity at 25°C Brookfield	3,000 - 6,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	35 - 45 Nm
Prevailing strength (thread)	50 - 70 Nm
Shear strength (DIN 54452)	20 - 30 N/mm <sup>2</sup>
Handling strength at room temperature	2 - 5 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +180°C

### Passive Materials

High-Alloyed Steel	Aluminium, Nickel, Zinc, Gold
Oxide Layers	Chromate Layers
Anodic Coatings	Plastics and Ceramics

### Available Sizes

20ml	50ml	200ml
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## Weiconlock AN 305-11

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
DVGW Tested*

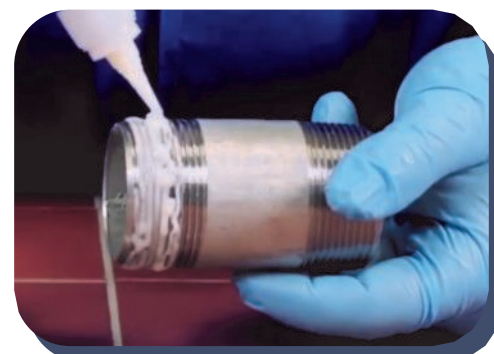


### Technical Data

Colour	White
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	17,000 - 50,000 mPa
Maximum gap filling capacity	0.4mm
Breakaway strength (thread)	7 - 10 Nm
Prevailing strength (thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm <sup>2</sup>
Handling strength at room temperature	20 - 40 minutes
Final strength at room temperature	5 - 10 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

50ml	200ml
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## Weiconlock for Pipe and Thread Sealing

### Weiconlock AN 305-42

*Medium Viscosity, Medium Strength,  
Disassembly with Normal Tools, DVGW  
Tested, Hydraulic & Pneumatic Sealing*



#### Technical Data

Colour	Brown
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	500 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	12 - 15 Nm
Prevailing strength (thread)	18 - 22 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +150°C

#### Available Sizes

20ml      50ml      200ml



### Weiconlock AN 305-67

*High Viscosity, Low Strength, Easy to  
Disassemble, Pipe, Thread and Flange  
Sealant, Extended Cure*

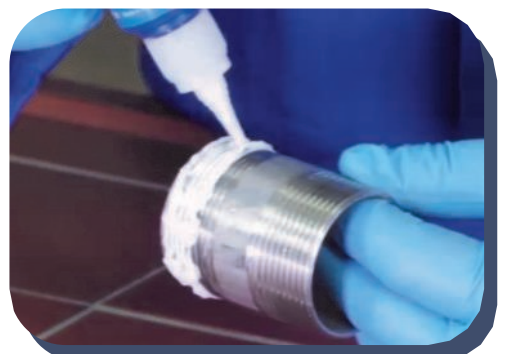


#### Technical Data

Colour	White
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	170,000 - 410,000 mPa
Maximum gap filling capacity	0.6mm
Breakaway strength (thread)	3 - 5 Nm
Prevailing strength (thread)	2 - 4 Nm
Shear strength (DIN 54452)	6 - 8 N/mm <sup>2</sup>
Handling strength at room temperature	120 - 240 minutes
Final strength at room temperature	24 - 72 hours
Temperature Resistance	-50°C to +175°C

#### Available Sizes

50ml      200ml



# Weiconlock for Pipe and Thread Sealing

## Weiconlock AN 305-77

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools, DVGW  
and BAM Approved for Oxygen Service*



### Available Sizes

50ml

200ml

### Technical Data

Colour	Yellow
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	24,000 - 70,000 mPa
Maximum gap filling capacity	0.5mm
Breakaway strength (thread)	18 - 22 Nm
Prevailing strength (thread)	10 - 14 Nm
Shear strength (DIN 54452)	6 - 13 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	1 - 3 hours
Temperature Resistance	-60°C to +150°C



## Weiconlock AN 305-86

*High Viscosity, High Strength,  
Hard to Disassemble, Extra Strong*



20ml

50ml

200ml

### Technical Data

Colour	Red
For threaded joints up to	M56 / R2"
Viscosity at 25°C Brookfield	6,000 - 7,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	15 - 30 Nm
Prevailing strength (thread)	25 - 45 Nm
Shear strength (DIN 54452)	10 - 20 N/mm <sup>2</sup>
Handling strength at room temperature	60 - 90 minutes
Final strength at room temperature	12 - 24 hours
Temperature Resistance	-60°C to +150°C



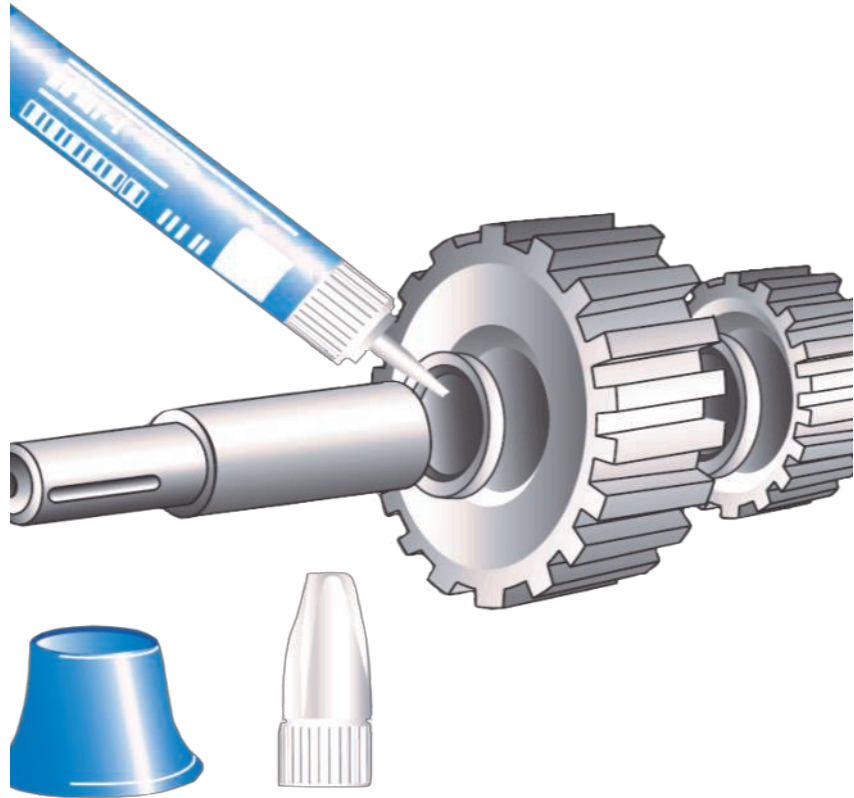


## Weiconlock for Retaining Cylindrical Assemblies

The method chosen for bonding or retaining a cylindrical assembly can have a huge impact on the power transmission and torque that can be generated by the part. Weiconlock grades for retaining cylindrical assemblies fill the voids on smooth mating surfaces and therefore provide total contact and a highly reliable bond.

These high quality anaerobic adhesives can be used in conjunction with shrink-fitting for even higher strength and also eliminate fretting corrosion.

Part of the larger Weiconlock range, these grades are used for the retention of ball, roller and slide bearings, bushes, bolts, liners, keys, splines and other close fitting metal parts.





# Weiconlock for Retaining Cylindrical Assemblies

## Weiconlock AN 301-38

*Medium Viscosity, High Strength, Hard to Disassemble, For Bearings, Shafts and Bushings, NSF Approved*



### Technical Data

Colour	Green
For threaded joints up to	M36
Viscosity at 25°C Brookfield	2,000 - 3,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	30 - 40 Nm
Prevailing strength (thread)	45 - 60 Nm
Shear strength (DIN 54452)	20 - 25 N/mm <sup>2</sup>
Handling strength at room temperature	5 minutes (approx.)
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

20ml

50ml

200ml



## Weiconlock AN 301-48

*Medium Viscosity, High Strength, Hard to Disassemble, For Bearings, Shafts and Bearings, DVGW and NSF Tested*



### Technical Data

Colour	Green
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	450 - 650 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	25- 30 Nm
Prevailing strength (thread)	40 - 55 Nm
Shear strength (DIN 54452)	25 - 30 N/mm <sup>2</sup>
Handling strength at room temperature	2 - 6 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +175°C

### Available Sizes

20ml

50ml

200ml



# Weiconlock for Retaining Cylindrical Assemblies

## Weiconlock AN 306-00

*Medium Viscosity, High Strength,  
Hard to Disassemble, For Bearings,  
Shafts and Bushings, Transparent*



### Technical Data

Colour	Transparent
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	500 mPa
Maximum gap filling capacity	0.15mm
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 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +175°C

### Available Sizes

20ml      50ml      200ml



## Weiconlock AN 306-01

*Low Viscosity, High Strength,  
Hard to Disassemble, For Bearings,  
Shafts and Bushings*

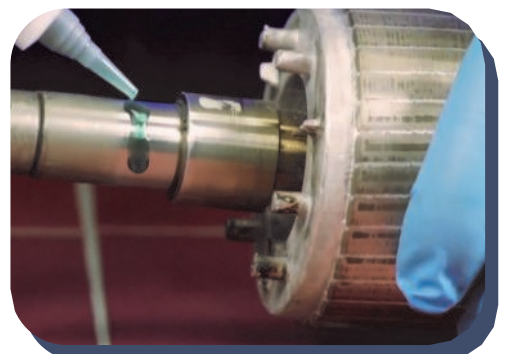


### Technical Data

Colour	Green
For threaded joints up to	M12
Viscosity at 25°C Brookfield	125 mPa
Maximum gap filling capacity	0.1mm
Breakaway strength (thread)	25 - 30 Nm
Prevailing strength (thread)	50 - 60 Nm
Shear strength (DIN 54452)	15 - 18 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

20ml      50ml      200ml



# Weiconlock for Retaining Cylindrical Assemblies

## Weiconlock AN 306-03

*Low Viscosity, High Strength,  
Hard to Disassemble, For Bearings,  
Shafts and Bushings*



20ml

50ml

200ml

### Technical Data

Colour	Green
For threaded joints up to	M12
Viscosity at 25°C Brookfield	125 mPa
Maximum gap filling capacity	0.1mm
Breakaway strength (thread)	25 - 30 Nm
Prevailing strength (thread)	50 - 60 Nm
Shear strength (DIN 54452)	15 - 18 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +150°C



### Available Sizes

## Weiconlock AN 306-10

*Medium Viscosity, High Strength,  
Hard to Disassemble, For Cylindrical  
Assemblies in Passive Materials*



20ml

50ml

200ml

### Technical Data

Colour	Green
For threaded joints up to	M20 / R3/4"
Viscosity at 25°C Brookfield	700 - 1,000 mPa
Maximum gap filling capacity	0.15mm
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 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +180°C

### Passive Materials

High-Alloyed Steel	Aluminium, Nickel, Zinc, Gold
Oxide Layers	Chromate Layers
Anodic Coatings	Plastics and Ceramics

### Available Sizes





# Weiconlock for Retaining Cylindrical Assemblies

## Weiconlock AN 306-20

*High Viscosity, High Strength,  
Hard to Disassemble, High Temperature  
Resistance, DVGW, KTW, BAM Tested*



### Technical Data

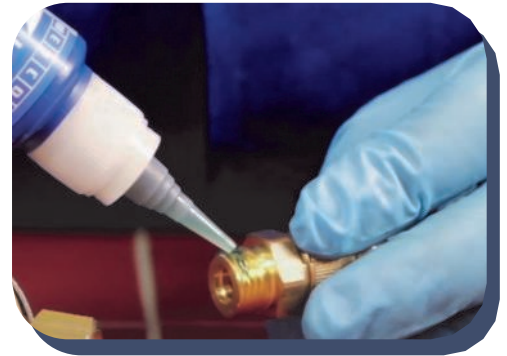
Colour	Green
For threaded joints up to	M56 / R2"
Viscosity at 25°C Brookfield	3,000 - 6,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	28 - 36 Nm
Prevailing strength (thread)	40 - 55 Nm
Shear strength (DIN 54452)	15 - 25 N/mm <sup>2</sup>
Handling strength at room temperature	20 - 40 minutes
Final strength at room temperature	24 hours (approx.)
Temperature Resistance	-60°C to +200°C

### Available Sizes

20ml

50ml

200ml



## Weiconlock AN 306-30

*High Viscosity, High Strength,  
Hard to Disassemble, For Passive  
Materials, BAM Approval for Oxygen*



### Technical Data

Colour	Green
For threaded joints up to	M36
Viscosity at 25°C Brookfield	3,000 - 6,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	35 - 45 Nm
Prevailing strength (thread)	50 - 70 Nm
Shear strength (DIN 54452)	20 - 30 N/mm <sup>2</sup>
Handling strength at room temperature	2 - 5 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +180°C

### Passive Materials

High-Alloyed Steel	Aluminium, Nickel, Zinc, Gold
Oxide Layers	Chromate Layers
Anodic Coatings	Plastics and Ceramics

### Available Sizes

20ml

50ml

200ml



# Weiconlock for Pipe and Thread Sealing

## Weiconlock AN 306-38

*Medium Viscosity, High Strength,  
Hard to Disassemble, For Bearings,  
Gear Wheels and Bolts, Fast Cure*



10ml

### Available Sizes

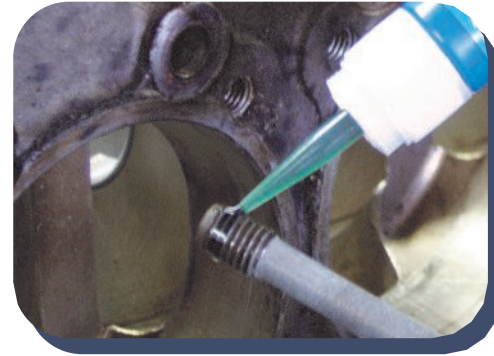
20ml

50ml

200ml

### Technical Data

Colour	Green
For threaded joints up to	M36
Viscosity at 25°C Brookfield	2,500 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	35 - 45 Nm
Prevailing strength (thread)	50 - 70 Nm
Shear strength (DIN 54452)	25 - 30 N/mm <sup>2</sup>
Handling strength at room temperature	5 minutes (approx.)
Final strength at room temperature	1 - 3 hours
Temperature Resistance	-60°C to +150°C



## Weiconlock AN 306-40

*Medium Viscosity, High Strength,  
Hard to Disassemble, High Temperature  
Resistance, Slow Curing*



20ml

### Available Sizes

50ml

200ml

### Technical Data

Colour	Green
For threaded joints up to	M20
Viscosity at 25°C Brookfield	600 mPa
Maximum gap filling capacity	0.15mm
Breakaway strength (thread)	20 - 30 Nm
Prevailing strength (thread)	30 - 40 Nm
Shear strength (DIN 54452)	15 - 30 N/mm <sup>2</sup>
Handling strength at room temperature	4 hours (approx.)
Final strength at room temperature	24 hours (approx.)
Temperature Resistance	-60°C to +200°C



# Weiconlock for Retaining Cylindrical Assemblies

## Weiconlock AN 306-41

*Medium Viscosity, Medium Strength,  
Disassembly with Normal Tools, For  
Bearings, Shafts and Bushings*



### Technical Data

Colour	Yellow
For threaded joints up to	M20
Viscosity at 25°C Brookfield	550 mPa
Maximum gap filling capacity	0.12mm
Breakaway strength (thread)	12 - 15 Nm
Prevailing strength (thread)	17 - 22 Nm
Shear strength (DIN 54452)	8 - 12 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C



### Available Sizes

20ml      50ml      200ml

## Weiconlock AN 306-48

*Medium Viscosity, High Strength,  
Hard to Disassemble, High Temperature  
Resistance, BAM Approval for Oxygen*



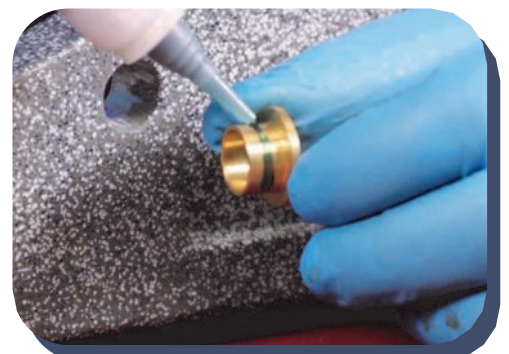
### Technical Data

Colour	Green
For threaded joints up to	M20
Viscosity at 25°C Brookfield	550 mPa
Maximum gap filling capacity	0.15mm
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	5 minutes (approx.)
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +175°C



### Available Sizes

20ml      50ml      200ml





# Weiconlock for Retaining Cylindrical Assemblies

## Weiconlock AN 306-50

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
Transparent*



### Technical Data

Colour	Transparent
For threaded joints up to	M36 / R1 1/2"
Viscosity at 25°C Brookfield	2,500 - 3,000 mPa
Maximum gap filling capacity	0.2mm
Breakaway strength (thread)	35 - 45 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 minutes
Final strength at room temperature	2 - 4 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

20ml      50ml      200ml



## Weiconlock AN 306-60

*High Viscosity, High Strength,  
Hard to Disassemble, For Worn Out  
Bearing Rings and Bushings*



### Technical Data

Colour	Silver
For threaded joints up to	R2"
Viscosity at 25°C Brookfield	150,000 - 900,000 mPa
Maximum gap filling capacity	0.5mm
Breakaway strength (thread)	35 - 45 Nm
Prevailing strength (thread)	10 - 20 Nm
Shear strength (DIN 54452)	25 - 30 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +150°C

### Available Sizes

50ml      200ml

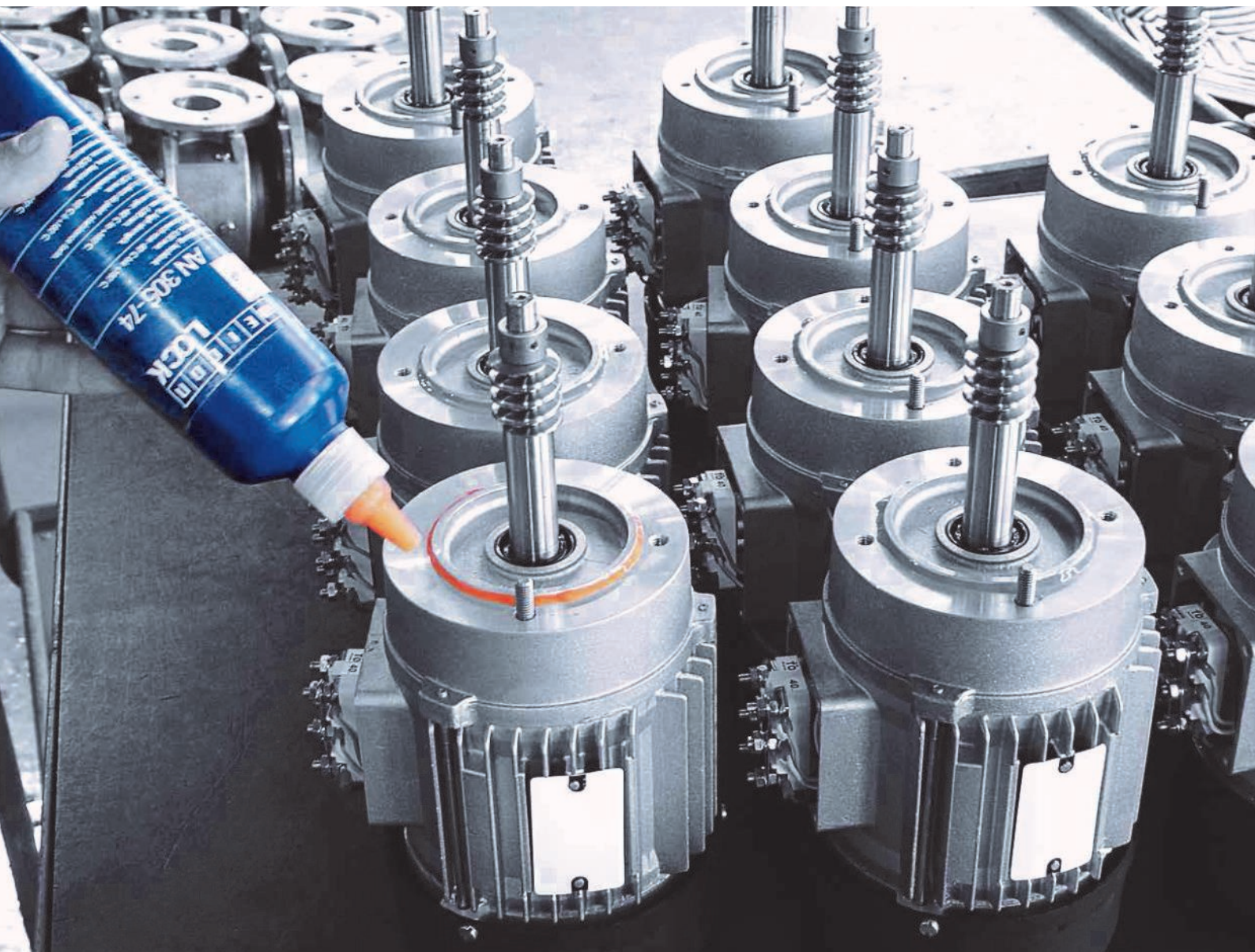
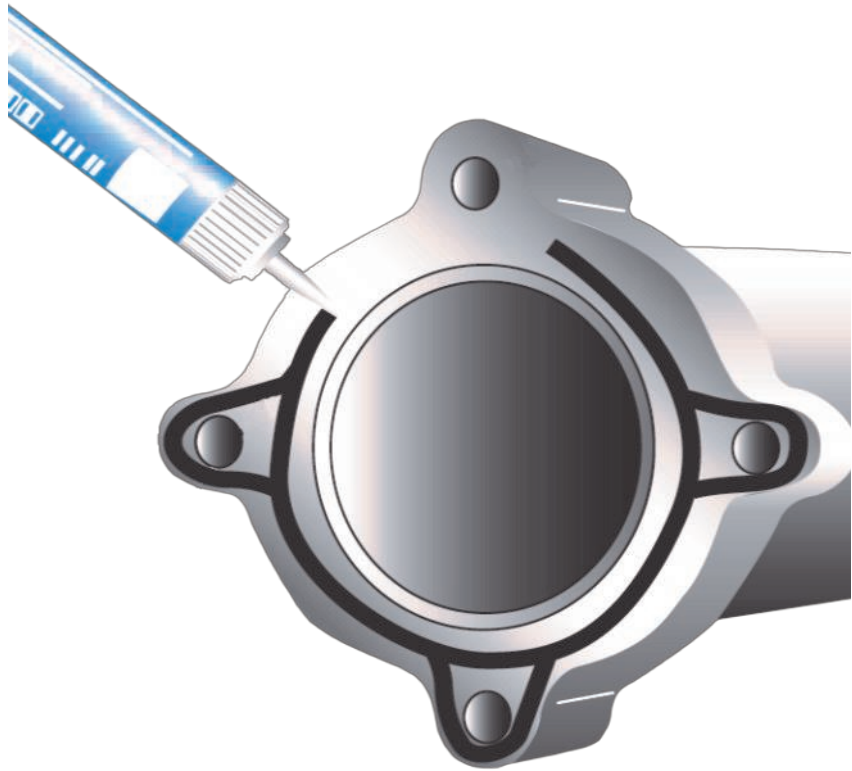


## Weiconlock for Flange Sealing and Gasketing

Weiconlock grades for flange sealing and gasketing represent easy, cost effective alternatives to traditional gaskets where flange faces are closely mated.

In maintenance situations where the exact type and size of a gasket won't be known until the flange is dissembled, these high quality anaerobic adhesives offer an attractive alternative to slight delays for manufacture or the need to hold stock.

At low pressures (up to about 6 bar), Weiconlock provides an instant seal. Once cured, these anaerobic adhesives retain good elasticity to allow for some flange movement without compromising the seal. Because of their liquid nature, you can be sure that Weiconlock Flange and Gasketing grades will fill any voids or imperfections in the flange and, once cured, will provide outstanding chemical resistance.





# Weiconlock for Flange Sealing and Gasketing

## Weiconlock AN 301-72

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools, High  
Temperature Grade with PTFE,  
NSF and DVGW Tested, Non-Marking*



### Available Sizes

50ml

200ml

### Technical Data

Colour	White
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	15,000 - 60,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	5 - 10 Nm
Prevailing strength (thread)	4 - 6 Nm
Shear strength (DIN 54452)	5 - 7 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	6 - 12 hours
Temperature Resistance	-60°C to +200°C



## Weiconlock AN 305-10

*High Viscosity, High Strength,  
Hard to Disassemble, For Gasketing of  
Flanges, Gear Boxes and Motor  
Housings, High Temperature Resistance*



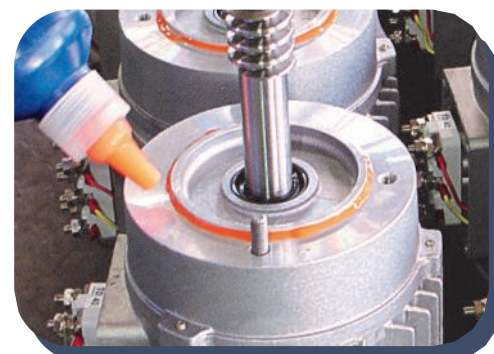
### Available Sizes

50ml

200ml

### Technical Data

Colour	Orange
For threaded joints up to	---
Viscosity at 25°C Brookfield	70,000 - 300,000 mPa
Maximum gap filling capacity	0.5mm
Breakaway strength (thread)	18- 25 Nm
Prevailing strength (thread)	15 - 25 Nm
Shear strength (DIN 54452)	5 - 10 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	6 - 12 hours
Temperature Resistance	-60°C to +200°C





## Weiconlock for Flange Sealing and Gasketing

### Weiconlock AN 305-18

*High Viscosity, High Strength,  
Hard to Disassemble,  
For Sealing and Filling Large Gaps,  
Immediate Sealing Effect*



#### Technical Data

Colour	Red
For threaded joints up to	---
Viscosity at 25°C Brookfield	80,000 - 500,000 mPa
Maximum gap filling capacity	0.5mm
Breakaway strength (thread)	12 - 18 Nm
Prevailing strength (thread)	18 - 24 Nm
Shear strength (DIN 54452)	8 - 13 N/mm <sup>2</sup>
Handling strength at room temperature	10 - 20 minutes
Final strength at room temperature	3 - 6 hours
Temperature Resistance	-60°C to +200°C



#### Available Sizes

50ml

200ml

### Weiconlock AN 305-72

*High Viscosity, Medium Strength,  
Disassembly with Normal Tools,  
Contains PTFE, Immediate Sealing  
Effect, DVGW Tested*



#### Technical Data

Colour	White
For threaded joints up to	M80 / R3"
Viscosity at 25°C Brookfield	17,000 - 50,000 mPa
Maximum gap filling capacity	0.4mm
Breakaway strength (thread)	7 - 10 Nm
Prevailing strength (thread)	2 - 4 Nm
Shear strength (DIN 54452)	4 - 6 N/mm <sup>2</sup>
Handling strength at room temperature	20 - 40 minutes
Final strength at room temperature	5 - 10 hours
Temperature Resistance	-60°C to +150°C



#### Available Sizes

50ml

200ml



# Weiconlock for Flange Sealing and Gasketing

## Weiconlock AN 305-73

*High Viscosity, Low Strength,  
Easy to Disassemble,  
For Sealing Flanges,  
Gear Boxes and Motor Housings*



### Technical Data

Colour	Light Green
For threaded joints up to	---
Viscosity at 25°C Brookfield	17,000 - 50,000 mPa
Maximum gap filling capacity	0.3mm
Breakaway strength (thread)	6 - 10 Nm
Prevailing strength (thread)	2 - 5 Nm
Shear strength (DIN 54452)	4 - 6 N/mm <sup>2</sup>
Handling strength at room temperature	20 - 40 minutes
Final strength at room temperature	12 hours (approx.)
Temperature Resistance	-60°C to +150°C



### Available Sizes

50ml                      200ml

## Weiconlock AN 305-74

*High Viscosity, High Strength,  
Hard to Disassemble,  
For Sealing Flanges,  
Gear Boxes and Motor Housings*



### Technical Data

Colour	Orange
For threaded joints up to	---
Viscosity at 25°C Brookfield	30,000 - 100,000 mPa
Maximum gap filling capacity	0.5mm
Breakaway strength (thread)	16 - 24 Nm
Prevailing strength (thread)	5 - 10 Nm
Shear strength (DIN 54452)	5 - 10 N/mm <sup>2</sup>
Handling strength at room temperature	15 - 30 minutes
Final strength at room temperature	12 hours (approx.)
Temperature Resistance	-60°C to +180°C



### Available Sizes

50ml                      200ml

Grade	Application	Strength	Viscosity	Colour	For Threads Up To	Viscosity in mPA (at 25°C Brookfield)	
<b>301-43</b>	Threadlocking, DVGW <sup>2</sup> /NSF Approved	Medium	High	Blue	M36	2,000 - 8,000	
<b>301-70</b>	Threadlocking, NSF Approved	High	Medium	Green	M25	500 - 900	
<b>302-21</b>	Threadlocking	Low	Low	Violet	M12	125	
<b>302-22</b>	Threadlocking	Low	Medium	Purple	M36	1,000	
<b>302-40</b>	Threadlocking, DVGW <sup>2</sup> Approved	Medium	Medium	Transparent	M20	600	
<b>302-41</b>	Threadlocking	Medium	Low	Blue	M12	125	
<b>302-42</b>	Threadlocking	Medium	Medium	Blue	M36	1,000	
<b>302-43</b>	Threadlocking, DVGW <sup>2</sup> /NSF Approved	Medium	High	Blue	M36	2,000 - 7,000	
<b>302-50</b>	Threadlocking	High	Medium	Transparent	M20	500	
<b>302-60</b>	Threadlocking for passive materials	High	Medium	Green	M20	700 - 1,000	
<b>302-62</b>	Threadlocking	High	High	Red	M36	1,500 - 6,500	
<b>302-70</b>	Locking of threads and stud bolts, DVGW <sup>2</sup> Approved	High	Medium	Green	M20	500	
<b>302-71</b>	Locking of threads and stud bolts	High	Medium	Red	M20	500	
<b>302-72</b>	Locking of threads and stud bolts, DVGW <sup>2</sup> Approved	High	High	Red	M56	6,000 - 15,000	
<b>302-90</b>	Threadlocking for locking after assembly	High	Very Low	Green	M5	10-20	
<b>302-25</b>	Sealing of threaded pipes and fittings	Low	High	Brown	M80	6,000 - 30,000	
<b>302-45</b>	Sealing of threaded pipes and fittings, DVGW <sup>2</sup> Approved	Medium	High	Blue	M80	6,000 - 30,000	
<b>302-75</b>	Sealing of threaded pipes and fittings, BAM <sup>3</sup> Approved	High	High	Green	M80	14,000 - 24,000	
<b>302-77</b>	Sealing of threaded pipes and fittings	High	High	Red	M36	6,000	
<b>302-80</b>	Sealing of threaded pipes and fittings . For passive materials	High	High	Green	M36	3,000 - 6,000	
<b>305-11</b>	Sealing of threaded pipes and fittings, DVGW <sup>2</sup> Approved	Medium	High	White	M80	17,000 - 50,000	
<b>305-42</b>	Sealing of hydraulic and pneumatic systems, DVGW <sup>2</sup> Approved	Medium	Medium	Brown	M20	500	
<b>305-67</b>	Sealing of threaded pipes and fittings as well as metallic flanges	Low	High	White	M80	170,000 - 410,000	
<b>305-77</b>	Sealing of threaded pipes & fittings, BAM <sup>3</sup> , DVGW <sup>2</sup> & AGA <sup>4</sup> Approved	Medium	High	Yellow	M80	24,000 - 70,000	
<b>305-86</b>	Pipe sealing (extra strong)	High	High	Red	M56	6,000 - 7,000	
<b>301-38</b>	Retaining cylindrical assemblies, NSF Approved	High	Medium	Green	M36	2,000 - 3,000	
<b>301-48</b>	Retaining cylindrical assemblies, DVGW <sup>2</sup> & NSF Approved	High	Medium	Green	M20	450-650	
<b>306-00</b>	Retaining cylindrical assemblies	High	Medium	Transparent	M20	500	
<b>306-01</b>	Retaining cylindrical assemblies	High	Low	Green	M12	125	
<b>306-03</b>	Retaining cylindrical assemblies	High	Low	Green	M12	125	
<b>306-10</b>	Retaining cylindrical assemblies. For passive materials	High	Medium	Green	M20	700 - 1,000	
<b>306-20</b>	Retaining cylindrical assemblies, BAM <sup>3</sup> , DVGW <sup>2</sup> & KTW <sup>1</sup> Approved	High	High	Green	M56	3,000 - 6,000	
<b>306-30</b>	Retaining cylindrical assemblies. Passive materials, BAM <sup>3</sup> Approved	High	High	Green	M36	3,000 - 6,000	
<b>306-38</b>	Retaining cylindrical assemblies	High	Medium	Green	M36	2,500	
<b>306-40</b>	Retaining cylindrical assemblies	High	Medium	Green	M20	600	
<b>306-41</b>	Retaining cylindrical assemblies	Medium	Medium	Yellow	M20	550	
<b>306-48</b>	Retaining cylindrical assemblies, BAM <sup>3</sup> Approved	High	Medium	Green	M20	550	
<b>306-50</b>	Retaining cylindrical assemblies	Medium	High	Transparent	M36	2,500 - 3,000	
<b>306-60</b>	Assembly of cylindrical parts	High	High	Silver	M50	150,000 - 900,000	
<b>301-72</b>	Pipe and flange sealing (with PTFE), DVGW <sup>2</sup> & NSF Approved	Medium	High	White	M80	15,000 - 60,000	
<b>305-10</b>	Flange sealing, AGA <sup>4</sup> Approved	High	High	Orange	---	70,000 - 300,000	
<b>305-18</b>	Flange sealing	High	High	Red	---	80,000 - 500,000	
<b>305-72</b>	Pipe and flange sealing (with PTFE), DVGW <sup>2</sup> Approved	Medium	High	White	M80	17,000 - 50,000	
<b>305-73</b>	Flange sealing	Low	High	Light Green	---	17,000 - 50,000	
<b>305-74</b>	Flange sealing	High	High	Orange	---	30,000 - 100,000	

All technical details are based on laboratory tests and extensive experience with various applications around the world.



	Max. Gap Filling Capacity (mm)	Breakaway Strength (N/m, Thread*)	Prevailing Strength (N/m Thread*)	Shear Strength** (N/mm <sup>2</sup> , DIN 54452)	Handling Strength at room temp. (minutes)	Final Strength at room temp. (hours)	Temperature Resistance
	0.25	18-22	9-11	10-13	5-15	1-3	-60°C to +150°C
	0.15	25-35	40-50	14-20	5-15	5-10	-60°C to +150°C
	0.1	7-10	3-6	4-7	10-20	3-6	-60°C to +150°C
	0.2	4-8	2-4	3-5	10-20	3-6	-60°C to +150°C
	0.15	12-16	18-24	8-12	10-20	3-6	-60°C to +150°C
	0.1	10-15	12-16	8-12	10-20	3 (approx.)	-60°C to +150°C
	0.2	14-18	5-8	8-12	10-20	3-6	-60°C to +150°C
	0.25	17-22	8-12	9-13	10-20	1-3	-60°C to +150°C
	0.15	30-35	55-70	25-35	2-5	2-4	-60°C to +175°C
	0.15	30-35	55-70	25-35	2-5	2-4	-60°C to +180°C
	0.25	20-25	40-55	10-15	10-20	3-6	-60°C to +150°C
	0.15	28-35	50-65	15-20	10-20	3-6	-60°C to +150°C
	0.15	28-35	50-65	15-20	10-20	3-6	-60°C to +150°C
	0.3	20-30	40-75	10-15	20-40	5-10	-60°C to +230°C
	0.07	15-25	30-40	8-12	5-20	3 (approx.)	-60°C to +150°C
	0.3	5-8	2-4	3-5	15-30	3-6	-60°C to +150°C
	0.3	10-15	12-18	8-12	15-30	3-6	-60°C to +150°C
	0.3	40-50	40-50	15-25	15-30	3-6	-60°C to +150°C
	0.25	30-40	10-15	35-45	40-60	6-12	-60°C to +150°C
	0.2	35-45	50-70	20-30	2-5	2-4	-60°C to +180°C
	0.4	7-10	2-4	4-6	20-40	5-10	-60°C to +150°C
	0.15	12-15	18-22	8-12	10-20	2-4	-60°C to +150°C
	0.6	3-5	2-4	6-8	120-240	24-72	-50°C to +175°C
	0.5	18-22	10-14	6-13	15-30	1-3	-60°C to +150°C
	0.3	15-30	25-45	10-20	60-90	12-24	-60°C to +150°C
	0.2	30-40	45-60	20-25	5 (approx.)	2-4	-60°C to +150°C
	0.15	25-30	40-55	25-30	2-6	2-4	-60°C to +175°C
	0.15	30-35	55-70	25-35	2-5	2-4	-60°C to +175°C
	0.1	25-30	50-60	15-18	10-20	2-4	-60°C to +150°C
	0.1	25-30	50-60	15-18	10-20	2-4	-60°C to +150°C
	0.15	30-35	55-70	25-35	2-5	2-4	-60°C to +180°C
	0.2	28-36	40-55	15-25	20-40	24 (approx.)	-60°C to +200°C
	0.2	35-45	50-70	20-30	2-5	2-4	-60°C to +180°C
	0.2	35-45	50-70	25-30	5 (approx.)	1-3	-60°C to +150°C
	0.15	20-30	30-40	15-30	240 (approx.)	24 (approx.)	-60°C to +200°C
	0.12	12-15	17-22	8-12	10-20	3-6	-60°C to +150°C
	0.15	30-35	55-70	25-35	5 (approx.)	2-4	-60°C to +175°C
	0.2	35-45	55-70	25-35	2-5	2-4	-60°C to +150°C
	0.5	35-45	10-20	25-30	15-30	3-6	-60°C to +150°C
	0.3	5-10	4-6	5-7	15-30	6-12	-60°C to +200°C
	0.5	18-25	15-25	5-10	15-30	6-12	-60°C to +200°C
	0.5	12-18	18-24	8-13	10-20	3-6	-60°C to +200°C
	0.4	7-10	2-4	4-6	20-40	5-10	-60°C to +150°C
	0.3	6-10	2-5	4-6	20-40	12 (approx.)	-60°C to +150°C
	0.5	16-24	5-10	5-10	15-30	12 (approx.)	-60°C to +180°C

\*Strength values based on M10 screws, 8.8 grade, 0.8D UNC Thread

\*\*Static shear strength based on cylindrical parts approx. 1.3mm Ø

†KTW Test for use in drinking water supply systems. ‡DVGW Certificate for use in gas supply and hot water systems.

§BAM Approval No 4045/96 for gaseous oxygen up to maximum 60 degrees celcius in temperature and 10 BAR oxygen pressure.

# Other Weicon Flange and Thread Sealing Products

## Weicon Plast-o-Seal

Designed for sealing smooth, close-mating flanges typically found on gearboxes and motor casings. Weicon Plast-o-Seal can be used by itself (for gaps no larger than 0.1mm) or in conjunction with a traditional gasket.

Plast-o-Seal is free of solvents, remains permanently plastic and enables easy joint disassembly.

Weicon Plast-o-Seal is used in temperatures between -50°C and 200°C is non-corrosive and can be applied to vertical surfaces. Fluorescent blue in colour, Plast-o-Seal has very good resistance to most fuels, oils, water and coolant mixtures and compensates well for any defects on flange surfaces.

### Technical Data

Colour	Fluorescent Blue
For threaded joints up to	---
Viscosity at 25°C Brookfield	950,000 - 1,650,000 mPa
Maximum gap filling capacity	0.1mm (without gasket)
Working temperature	+5°C to +35°C
Base	Polyester Resin
Temperature Resistance	-50°C to +200°C +250°C Short-term



### Available Sizes

90gm	Tube
120gm	Brush-Top Can
300gm	Cartridge



## Weicon DF 175 Thread Sealing Cord

DF 175 is a patented thread sealing cord made from 100% PTFE that seals almost all metal and plastic threads permanently and safely. Due to its 100% PTFE construction, Weicon DF 175 exhibits outstanding chemical resistance and withstands attack from even the most aggressive solvents, caustic agents and acids.

DF 175 is non-flammable and is used in applications where temperatures range from -200°C to +240°C. In contrast to other PTFE sealing tapes, DF 175 is pure PTFE with no carrier or liner which means that there is no potential for separation of the layers during fitting.

### Features and Benefits

- Monofilament made from 100% PTFE
- Resistant to mould, bacteria and fungus
- Resistant to organic and inorganic chemicals such as mineral acids, peroxides, hydrocarbons, chlorinated solvents and more
- Suitable for all thread connections
- Very economical. 1 roll replaces up to 20 rolls of PTFE tape (0.1 x 12mm x 10M)
- Tested and approved by international testing institutes such as KTW, WRAS, BAM, DVGW and UL.
- Fast and easy to apply using the integrated 360° cutter.



## Other Products in the Weicon Range

### Weicon Contact Adhesives (Super Glue)

The Weicon range of cyanoacrylate contact adhesives allow you to create quick, strong and permanent bonds. The specially designed applicator pens allow highly accurate dosing while the high quality results in reliable performance. Whether you require high temperature resistance, food grade certification, fast bond time or the ability to bond anti-adhesive materials (such as PTFE), our comprehensive range contains the adhesive you need.



### Weiconlock Technical Sprays and Liquids

High quality, easy to use and very economical, the large and versatile range of Weicon Technical Sprays and Liquids includes surface and corrosion protection, cleaning, degreasing, protection, lubricating, separating, release and assembly sprays with many also available in liquid form. The full range includes over 60 distinct products so you can be sure we have the product you need for your specific application.



### Weicon Elastic, Epoxy and Structural Adhesives

With a wide range of adhesive types available for different material, bond time, temperature, adhesive strength and viscosity requirements the Weicon brand of adhesives has all common industrial applications covered. These high quality adhesives are trusted around the world for demanding bonding applications and represent a versatile and cost effective alternative to other forms of fastening.



### Weicon Lubricants and Anti-Seize Compounds

The Weicon range of lubricating compounds includes our Weicon All-Round Lubricants and Weicon Anti-Seize. Both forms are high quality, specially engineered industrial lubricants designed for long lasting performance in demanding environments. For more information on the variety of different lubricating compounds available, or assistance in determining the best selection for your application, please contact your local AG branch.



### Weicon Repair Sticks

Perfect for making quick, easy and permanent repairs to a variety of different material types and objects, Weicon Repair Sticks are the ultimate convenient maintenance product. With their unique design, using one is as simple as slicing, kneading and applying. Available styles include Plastic, Concrete, Steel, Stainless Steel, Wood, Aluminium and Copper as well as the high temperature Titanium grade and our Aqua grade for underwater repairs.



### Weicon Plastic Metal

The Weicon range of Plastic Metal compounds are two-part epoxy resin systems that are ideal for fast, cost effective and durable repairs or coatings to a variety of different materials. Used in all areas of industry, these quality compounds cure at room temperature into a metal-like material that adhere to almost every kind of surface.







Associated Gaskets



Quality  
Endorsed  
Company



[www.weicon.com](http://www.weicon.com)

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