

WEICONLOCK[®]

Anaerobic Adhesives and Sealants

- locking • retaining
- sealing • gasketing



- easy application
- clean processing
- better dosing

The ideal solution for construction, production and maintenance:

- one-component
- fast curing
- ready-to-use
- solvent-free
- non-shrinking
- vibration-proof



Locking of stud bolts at a car engine with WEICONLOCK AN 302-70

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.



Threadlocking of a brass valve with WEICONLOCK AN 302-43

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 room temperature. 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



Locking of a dummy screw fitting in a control block with WEICONLOCK AN 306-30

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 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".

Active materials fast curing	Passive materials slower curing
bronze iron copper brass steel	high-alloyed steel aluminium nickel, zinc, gold oxid layers chromate layers anodic coatings plastics and ceramics

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 (0°C and up) and for large gaps. On non-metallic surfaces, WEICONLOCK is made effective by use of the activator.

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).

Curing

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.



Retaining of cylindrical assembly of an easy-running aluminium roller for rotary machines with WEICONLOCK AN 306-38

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

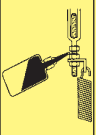
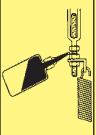
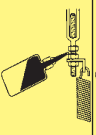
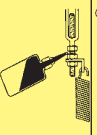
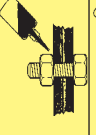
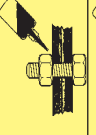
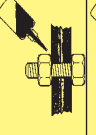




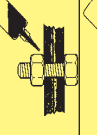


WEICONLOCK can be stored in the unopened original container for at least one year at room temperature. Keep away from heat sources and direct sunlight. The air in the bottle/tube keeps WEICONLOCK liquid.

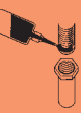





















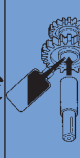
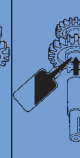
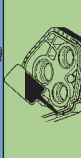
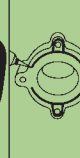
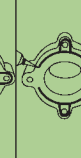
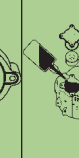
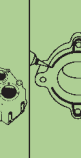
Flange sealing on industrial pumps with WEICONLOCK AN 305-74

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.

Typ-No.		Application	Viscosity at +25°C in mPa·s Brookfield	Gap filling capacity in mm max.	For threaded joints up to	Colour	Temperature resistance
AN 302-21		Threadlocking, vibration-proof; low viscosity, low strength, easy disassembly	125	0,10	M 12	violet	-60°C to +150°C
AN 302-22		Threadlocking, vibration-proof; medium viscosity, low strength, easy disassembly	1.000 mt	0,20	M 36	purple	-60°C to +150°C
AN 302-40		Threadlocking, vibration-proof; approved to DVGW ² , medium viscosity, medium strength, disassembly with normal tools	600 lt	0,15	M 20 R ¾"	transparent	-60°C to +150°C
AN 302-41		Threadlocking; low viscosity, medium strength, disassembly with normal tools	125 lt	0,10	M 12	blue	-60°C to +150°C
AN 302-42		Threadlocking; medium viscosity, medium strength, disassembly with normal tools	1.000 mt	0,20	M 36	blue	-60°C to +150°C
AN 302-43		Universal threadlocking type; approved to DVGW ² /KTW ¹ , higher viscosity, medium strength, disassembly with normal tools	2.000 - 7.000 mt	0,25	M 36	blue	-60°C to +150°C
AN 302-50		Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble	500 lt	0,15	M 20 R ¾"	transparent	-60°C to +175°C
AN 302-60		Threadlocking for passive materials such as stainless steel, aluminium, etc - fast bonding without activator; medium viscosity, high strength, hard to disassemble	700 - 1.000 lt	0,15	M 20 R ¾"	green	-60°C to +180°C
AN 302-62		Threadlocking; higher viscosity, high strength, hard to disassemble	1.500 - 6.500 mt	0,25	M 36	red	-60°C to +150°C
AN 302-70		Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble	500 lt	0,15	M 20 R ¾"	green	-60°C to +150°C
AN 302-71		Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble	500 lt	0,15	M 20 R ¾"	red	-60°C to +150°C
AN 302-72		Locking of threads and stud bolts; high-temperature resistant, higher viscosity, high strength, hard to disassemble	6.000 - 15.000 mt	0,30	M 56 R 2"	red	-60°C to +230°C
AN 302-90		Threadlocking, for locking after mounting and sealing of hair cracks; low viscosity, high strength, hard to disassemble	10 - 20	0,07	M 5 kapillar	green	-60°C to +150°C

AN 302-25		Sealing of threaded pipes and fittings, vibration-proof; high viscosity, low strength, easy disassembly	6.000 - 30.000 mt	0,30	M 80 R 3"	brown	-60°C to +150°C
AN 302-45		Sealing of threaded pipes and fittings for coarse threaded connections; high viscosity, medium strength, disassembly with normal tools	6.000 - 30.000 mt	0,30	M 80 R 3"	blue	-60°C to +150°C
AN 302-75		Sealing of threaded pipes and fittings for coarse threaded parts and flanges; high viscosity, high strength, hard to disassemble	14.000 - 24.000 mt	0,30	M 80 R 3"	green	-60°C to +150°C
AN 302-77		Sealing of threaded pipes and fittings for coarse threaded parts and flanges; high viscosity, high strength, hard to disassemble	6.000	0,25	M 36	red	-60°C to +150°C
AN 302-80		Sealing of threaded pipes and fittings for passive materials such as stainless steel, aluminium, etc - fast bonding without activator; higher viscosity, high strength, hard to disassemble	3.000 - 6.000 mt	0,20	M 36	green	-60°C to +180°C
AN 305-11		Sealing of threaded pipes and fittings; approved by DVGW ² /to KTW ¹ , higher viscosity, medium strength, disassembly with normal tools	17.000 - 50.000 ht	0,40	M 80 R 3"	white	-60°C to +150°C
AN 305-42		Sealing of hydraulic and pneumatic systems, universal product; medium viscosity, medium strength, disassembly with normal tools	500 lt	0,15	M 20 R 3/4"	brown	-60°C to +150°C
AN 305-72		Pipe and flange sealing (with PTFE), instant seal, appr. by DVGW ² /to KTW ¹ ; high viscosity, medium strength, disassembly with normal tools	17.000 - 50.000 ht	0,40	M 80 R 3"	white	-60°C to +150°C
AN 305-77		Universal sealing type for pipes and fittings; BAM ³ approval for gaseous oxygen, high viscosity, medium strength, disassembly with normal tools	24.000 - 70.000 ht	0,50	M 80 R 3"	yellow	-60°C to +150°C
AN 305-86		Pipe sealing, extra strong higher viscosity, hard to disassemble	6.000 - 7.000 lt	0,30	M 56 R 2"	red	-60°C to +150°C
AN 306-00		Retaining cylindrical assemblies, medium viscosity, high strength, hard to disassemble	500 lt	0,15	M 20 R 3/4"	transparent	-60°C to +175°C
AN 306-01		Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble	125 lt	0,10	M 12	green	-60°C to +150°C
AN 306-03		Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble	125 lt	0,10	M 12	green	-60°C to +150°C
AN 306-10		Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc - fast bonding without activator; medium viscosity, high strength, hard to disassemble	700 - 1.000 lt	0,15	M 20 R 3/4"	green	-60°C to +180°C
AN 306-20		Retaining cylindrical assemblies, approved by DVGW ² /to KTW ¹ , high-temperature resistant; higher viscosity, high strength, hard to disassemble	3.000 - 6.000 lt	0,20	M 56 R 2"	green	-60°C to +200°C
AN 306-30		Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc - fast bonding without activator; higher viscosity, high strength, hard to disassemble	3.000 - 6.000 mt	0,20	M 36	green	-60°C to +180°C
AN 306-38		Retaining cylindrical assemblies under high dynamical stress, fast-curing; medium viscosity, high strength, hard to disassemble	2.500 mt	0,20	M 36	green	-60°C to +150°C

AN 306-40		Retaining cylindrical assemblies, high-temperature resistant, slow-curing; medium viscosity, high strength, hard to disassemble	600 lt	0,15	M 20	green	-60°C to +200°C
AN 306-41		Retaining cylindrical assemblies, medium viscosity, medium strength, disassembly with normal tools	550 lt	0,12	M 20	yellow	-60°C to +150°C
AN 306-48		Retaining cylindrical assemblies, high-temperature resistant; medium viscosity, high strength, hard to disassemble	500 lt	0,15	M 20	green	-60°C to +175°C
AN 306-50		Retaining cylindrical assemblies, higher viscosity, medium strength, disassembly with normal tools	2.500 - 3.000 mt	0,20	M 36 1½"	transparent	-60°C to +150°C
AN 306-60		Assembly of cylindrical parts; ideal for repair of worn out bearings, bushes and damaged seats of bearings as well as for larger gaps up to 0,5 mm. high viscosity, high strength, hard to disassemble	150.000 - 900.000 ht	0,30	R 2"	silver	-60°C to +150°C
AN 305-10		Gasketing of flanges, gearboxes and motor housings, high-temperature resistant; high viscosity, high strength, hard to disassemble	70.000 - 300.000 ht	0,50	---	orange	-60°C to +200°C
AN 305-18		Flange sealing and gasketing, large gap-filling with instant seal; high viscosity, high strength, hard to disassemble	80.000 - 500.000 ht	0,50	---	red	-60°C to +200°C
AN 305-72		Pipe and flange sealing (with PTFE), instant seal, appr. by DVGW ² /to KTW ¹ ; high viscosity medium strength, disassembly with normal tools	17.000 - 50.000 mt	0,40	M 80 R 3"	white	-60°C to +150°C
AN 305-73		Gasketing of flanges, gearboxes and motor housings, elastic; high viscosity, low strength, easy disassembly	17.000 - 50.000 mt	0,30	---	light green	-60°C to +150°C
AN 305-74		Gasketing of flanges, gearboxes and motor housings, universal type, high-temperature resistant; high viscosity, high strength, hard to disassemble	30.000 - 100.000 ht	0,50	---	orange	-60°C to +180°C

¹ KTW test (Technologiezentrum 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 Tgb.-No. 4045/96 - II 2402 for gaseous oxygen up to max. +60°C operating temperature and 10 bar oxygen pressure).

We do not recommend WEICONLOCK for long-term use on connections of copper and its alloys if exposed to water of more than +40°C.

All recommendations and technical data are based on laboratory tests and extensive experiences 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

General physical data

WEICONLOCK (Liquid)

- Density ca. 1,1 g/cm³
- pH-value < 7
- Flammpunkt (ISO 2592) > +100°C
- Dampfdruck bei +25°C < 0,1 Torr
- Solubility in acetone and similar products
- Storage life at +20°C approx. 12 month in original package

WEICONLOCK (Cured)

- Admissible surface pressure for high-strength types approx. 450 N/mm² (65.000 PSI) (thickness below 0,08 mm)
- E-Modul 1) for high-strength types approx. 180 N/mm² (26.000 PSI) (thickness below 0,25 mm)
- 2) for low-strength types approx. 1.400 N/mm² (200.000 PSI)
- Coefficient of elongation approx. 280 N/mm² (40.000 PSI)
- Coefficient of therm conductivity approx. 8·10⁻⁵ $\frac{W}{m \cdot K}$
- Specific forward resistance approx. 0,2 $\frac{V}{m \cdot cm}$
- Dielectric coefficient approx. 10¹⁵ Ohm • cm
- Dielectric strength approx. 4
- Temperature of decomposition from approx. +250°C
- Chemically resistant against water, oil, fuel, organic solvents, refrigerants, gases

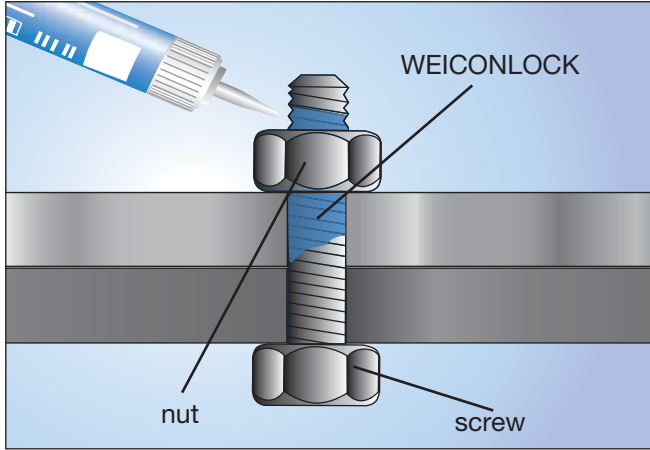
Type-No.	Application	Features	Colour	For threaded joints up to	Viscosity in mPa·s at +25°C Brookfield	Gap filling capacity in mm max.	Breakaway strength N/m (Thread*)	Prevailing strength N/m (Thread*)	Shear-strength** N/mm ² (DIN 54452)	Handling at room temp. (minute)	Final strength at room temperature (hours)	Temperature resistance
AN 302-21	Threadlocking	low strength low viscosity	violet	M 12	125	0,10	7 - 10	3 - 6	4 - 7	10 - 20	3 - 6	-60°C to +150°C
AN 302-22	Threadlocking	low strength medium viscosity	purple	M 36	1.000 mt	0,20	4 - 8	2 - 4	3 - 5	10 - 20	3 - 6	-60°C to +150°C
AN 302-40	Threadlocking DVGW-approval	medium strength medium viscosity	transparent	M 20 R 3/4"	600 nt	0,15	12 - 16	18 - 24	8 - 12	10 - 20	3 - 6	-60°C to +150°C
AN 302-41	Threadlocking	medium strength low viscosity	blue	M 12	125 nt	0,10	10 - 15	12 - 16	8 - 12	10 - 20	approx. 3	-60°C to +150°C
AN 302-42	Threadlocking	medium strength medium viscosity	blue	M 36	1.000 mt	0,20	14 - 18	5 - 8	8 - 12	10 - 20	3 - 6	-60°C to +150°C
AN 302-43	Threadlocking KTW/DVGW-approval	medium strength higher viscosity	blue	M 36	2.000 - 7.000 mt	0,25	17 - 22	8 - 12	9 - 13	10 - 20	1 - 3	-60°C to +150°C
AN 302-50	Threadlocking for passive materials	high strength medium viscosity	transparent	M 20 R 3/4"	500 nt	0,15	30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +175°C
AN 302-60	Threadlocking for passive materials	high strength medium viscosity	green	M 20 R 3/4"	700 - 1.000 nt	0,15	30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +180°C
AN 302-62	Threadlocking	solid higher viscosity	red	M 36	1.500 - 6.500 mt	0,25	20 - 25	40 - 55	10 - 15	10 - 20	3 - 6	-60°C to +150°C
AN 302-70	Locking of threads and stud bolts	high strength medium viscosity	green	M 20 R 3/4"	500 nt	0,15	28 - 35	50 - 65	15 - 20	10 - 20	3 - 6	-60°C to +150°C
AN 302-71	Locking of threads and stud bolts	high strength medium viscosity	red	M 20 R 3/4"	500 nt	0,15	28 - 35	50 - 65	15 - 20	10 - 20	3 - 6	-60°C to +150°C
AN 302-72	Locking of threads and stud bolts	high strength higher viscosity	red	M 56 R 1/2"	6.000 - 15.000 mt	0,30	20 - 30	40 - 75	10 - 15	20 - 40	5 - 10	-60°C to +230°C
AN 302-90	Threadlocking for locking after assembly	high strength extrem low viscosity	green	M 5 kapillar	10 - 20	0,07	15 - 25	30 - 40	8 - 12	5 - 20	approx. 3	-60°C to +150°C
AN 302-25	Sealing of threaded pipes and fittings	low strength high viscosity	brown	M 80 R 3"	6.000 - 30.000 mt	0,30	5 - 8	2 - 4	3 - 5	15 - 30	3 - 6	-60°C to +150°C
AN 302-45	Sealing of threaded pipes and fittings	medium strength high viscosity	blue	M 80 R 3"	6.000 - 30.000 mt	0,30	10 - 15	12 - 18	8 - 12	15 - 30	3 - 6	-60°C to +150°C
AN 302-75	Sealing of threaded pipes and fittings	high strength high viscosity	green	M 80 R 3"	14.000 - 24.000 mt	0,30	40 - 50	40 - 50	15 - 25	15 - 30	3 - 6	-60°C to +150°C
AN 302-77	Sealing of threaded pipes and fittings	high strength higher viscosity	red	M 36	6.000	0,25	30 - 40	10 - 15	35 - 45	40 - 60	6 - 12	-60°C to +150°C
AN 302-80	Sealing of threaded pipes and fittings for passive materials	high strength higher viscosity	green	M 36	3.000 - 6.000 mt	0,20	35 - 45	50 - 70	20 - 30	2 - 5	2 - 4	-60°C to +180°C
AN 305-11	Sealing of threaded pipes and fittings DVGW/KTW approval	medium strength high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40	7 - 10	2 - 4	4 - 6	20 - 40	5 - 10	-60°C to +150°C
AN 305-42	Sealant for hydraulic and pneumatic systems	medium strength medium viscosity	brown	M 20 R 3/4"	500 nt	0,15	12 - 15	18 - 22	8 - 12	10 - 20	2 - 4	-60°C to +150°C
AN 305-72	Pipe and flange sealing (with PTFE) DVGW/KTW approval	medium strength high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40	7 - 10	2 - 4	4 - 6	20 - 40	5 - 10	-60°C to +150°C
AN 305-77	Sealing of threaded pipes and fittings. BAW approval	medium strength high viscosity	yellow	M 80 R 3"	24.000 - 70.000 ht	0,50	18 - 22	10 - 14	6 - 13	15 - 30	1 - 3	-60°C to +150°C
AN 305-86	Pipe sealing (extra strong)	high strength higher viscosity	red	M 56 R 2"	6.000 - 7.000 nt	0,30	15 - 30	25 - 45	10 - 20	60 - 90	12 - 24	-60°C to +150°C
AN 306-00	Retaining cylindrical assemblies	high strength medium viscosity	transparent	M 20 R 3/4"	500 nt	0,15	30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +175°C
AN 306-01	Retaining cylindrical assemblies	high strength low viscosity	green	M 12	125 nt	0,10	25 - 30	50 - 60	18 - 23	10 - 20	2 - 4	-60°C to +150°C
AN 306-03	Retaining cylindrical assemblies	high strength low viscosity	green	M 12	125 nt	0,10	25 - 30	50 - 60	15 - 18	10 - 20	2 - 4	-60°C to +150°C
AN 306-10	Retaining cylindrical assemblies for passive materials	low strength medium viscosity	green	M 20 R 3/4"	700 - 1.000 nt	0,15	30 - 35	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +180°C
AN 306-20	Retaining cylindrical assemblies DVGW/KTW approval	high strength higher viscosity	green	M 56 R 2"	3.000 - 6.000 nt	0,20	28 - 36	40 - 55	15 - 25	20 - 40	approx. 24	-60°C to +200°C
AN 306-30	Retaining cylindrical assemblies for passive materials	high strength higher viscosity	green	M 36	3.000 - 6.000 mt	0,20	35 - 45	50 - 70	20 - 30	2 - 5	2 - 4	-60°C to +180°C
AN 306-38	Retaining cylindrical assemblies	high strength medium viscosity	green	M 36	2.500 mt	0,20	35 - 45	50 - 70	25 - 30	approx. 5	1 - 3	-60°C to +150°C
AN 306-40	Retaining cylindrical assemblies	high strength medium viscosity	green	M 20	600 nt	0,15	20 - 30	30 - 40	15 - 30	approx. 240	approx. 24	-60°C to +200°C
AN 306-41	Retaining cylindrical assemblies	medium strength medium viscosity	yellow	M 20	550 nt	0,12	12 - 15	17 - 22	8 - 12	10 - 20	3 - 6	-60°C to +150°C
AN 306-48	Retaining cylindrical assemblies	high strength medium viscosity	green	M 20	550 nt	0,15	30 - 35	55 - 70	25 - 35	approx. 5	2 - 4	-60°C to +175°C
AN 306-50	Retaining cylindrical assemblies	medium strength higher viscosity	transparent	M 36 R 1 1/2"	2.500 - 3.000 mt	0,20	35 - 45	55 - 70	25 - 35	2 - 5	2 - 4	-60°C to +150°C
AN 306-60	Assembly of cylindrical parts	high strength high viscosity	silver	R 2"	150.000 - 900.000 ht	0,50	35 - 45	10 - 20	25 - 30	15 - 30	3 - 6	-60°C to +150°C
AN 305-10	Flange sealing	high strength high viscosity	orange	---	70.000 - 300.000 ht	0,50	18 - 25	15 - 25	5 - 10	15 - 30	6 - 12	-60°C to +200°C
AN 305-18	Flange sealing	high strength high viscosity	red	---	80.000 - 500.000 ht	0,50	12 - 18	18 - 24	8 - 13	10 - 20	3 - 6	-60°C to +200°C
AN 305-72	Pipe and flange sealing (with PTFE) DVGW/KTW approval	medium strength high viscosity	white	M 80 R 3"	17.000 - 50.000 ht	0,40	7 - 10	2 - 4	4 - 6	20 - 40	5 - 10	-60°C to +150°C
AN 305-73	Flange sealing	low strength high viscosity	light green	---	17.000 - 50.000 ht	0,30	6 - 10	2 - 5	4 - 6	20 - 40	approx. 12	-60°C to +150°C
AN 305-74	Flange sealing	high strength high viscosity	orange	---	30.000 - 100.000 ht	0,50	16 - 24	5 - 10	5 - 10	15 - 30	approx. 12	-60°C to +180°C

*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 mm, l/d = 0,88

**Field of Application:
Threadlocking**

- screws and nuts
- stud bolts



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 mating 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.

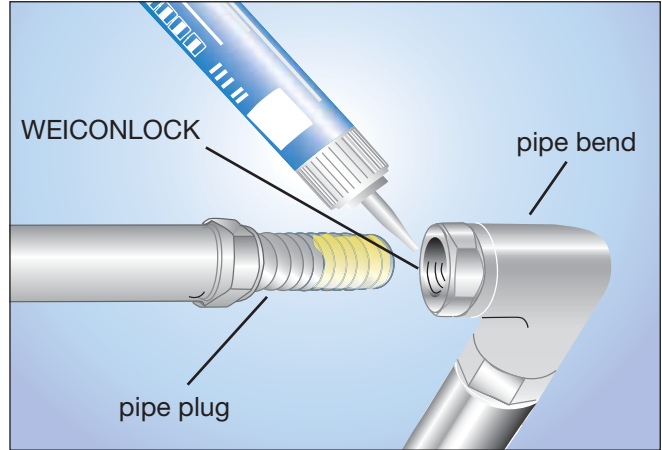
Due to its sealing properties, WEICONLOCK allows to use through-holes instead of blind tapped holes and helps to ensure specific clamp loadings.



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

**Field of Application:
Sealing of threaded pipes and fittings**

- threaded connections
- hydraulic and pneumatic systems
- cooler and compressed air systems



WEICONLOCK 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.

Prüfung	1. 1/2" DN			2. 1" DN		
	1. 1/2" DN	2. 1" DN	3. 1" DN	1. 1/2" DN	2. 1" DN	3. 1" DN
1. Dauerdruckprüfung und Leckprüfung	100	100	100	100	100	100
2. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
3. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
4. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
5. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
6. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
7. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
8. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
9. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100
10. Dauerdruckprüfung 5V (Vakuum 1 bar drinnen)	100	100	100	100	100	100

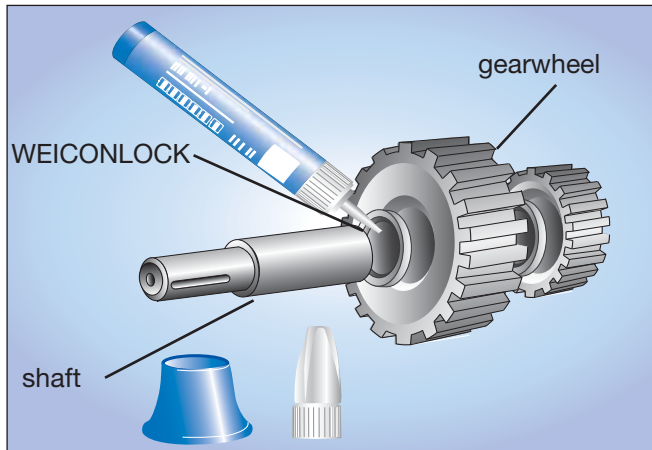
Certificate of registration by DVGW and KTW test report of the TZW* in Karlsruhe / Germany

WEICONLOCK sealant and threadlocker types for use in connection with gas, water and oxygen systems have been tested and approved under various test specifications.

* KTW-Test (Technologiezentrum Wasser) for drinking water approval.

Field of Application:
Retaining cylindrical assemblies

- shaft / hub-connections
- coupling hubs, pulleys, bearings
- cylindrical parts; slip-, press- or shrunk-fitted



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

In many cases, WEICONLOCK enables the reconditioning of worn out fittings.



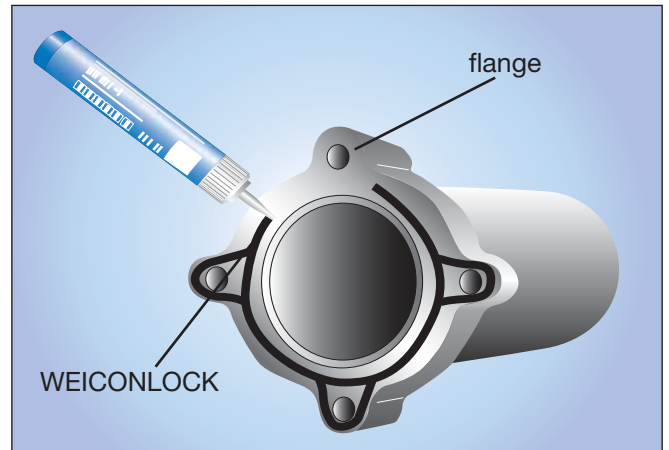
Locking of stud bolts at a car engine with WEICONLOCK AN 306-38

Combined methods of retaining (e.g bonding with WEICONLOCK in connection with shrunkfitting or pressfitting) 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.

Field of Application:
Flange sealing, gasketing

- flanges
- cases
- lids



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.



Flange sealing at electrical engines with WEICONLOCK AN 305-74

Cured WEICONLOCK products are resistant against most media (such as liquids and gases) used in industry.



WEICONLOCK® Anaerobic Adhesives and Sealants

- locking • retainig
- sealing
- gasketing



Distributed by:



Head office:

WEICON GmbH & Co. KG
 Königsberger Str. 255 • DE-48157 Münster
 Postfach 84 60 • DE-48045 Münster
 Tel. +49 (0) 251 / 93 22-0
 Fax +49 (0) 251 / 93 22-244 • Fax +49 (0) 251 / 93 22-233 Export
 www.weicon.de • info@weicon.de

Branch:

WEICON Middle East L.L.C.
 P.O.Box 11 82 16 • Dubai - U.A.E.
 Phone: +971 4 880 25 05 • Fax: +971 4 880 25 09
 t.lutz@weicon.ae • www.weicon.ae
 Office and Warehouse
 Jebel Ali Ind. Area No.3 • Sheikh Abdullah House, Warehouse No.17

The specifications and recommendations given in this brochure must not be seen as guaranteed product characteristics. They are based on our laboratory tests and on practical experience. Since individual application conditions are beyond our knowledge, control and responsibility, this information is provided with the understanding that the user will exercise his own responsibility for the high quality of our products. However, own adequate laboratory and practical tests to find out if the product in question meets the requested properties are recommended. A claim cannot be derived from them. The user bears the only responsibility for non-appropriate or other than specified applications.