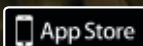




WEICONLOCK® Anaerobic Adhesives and Sealants

For high-alloyed steels and
other passive materials



www.weicon.com/app

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V 1.18



You can find further packing sizes and detailed information on WEICON products at www.weicon.de



WEICONLOCK Adhesives and Sealants

WEICONLOCK are one-component anaerobic adhesives and sealants, especially made for metal assembly parts. WEICONLOCK is a fast, reliable and economical product for retaining, sealing and gasketing all kinds of threaded, cylindrical, flanged or pipe assemblies.

The one-component adhesives and sealants on the basis of special methacrylate resins remain liquid as long as they are in contact with the oxygen in the air. The hardener component contained in the adhesive thus remains inactive as long as in contact with the atmospheric oxygen.

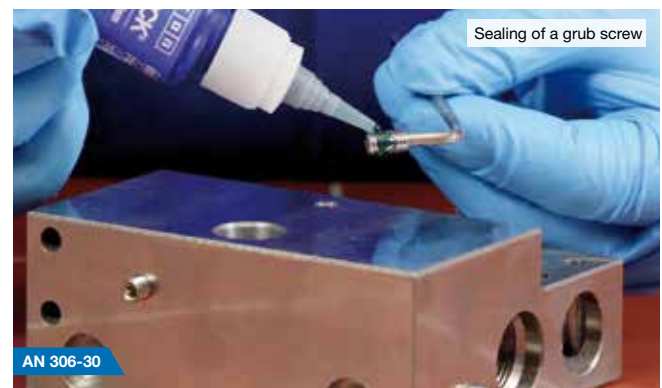
The cure starts when WEICONLOCK, between the interfaces, comes into contact with metal under the absence of air. The curing time is dependent on the selected type, the ambient temperature and the material.

Versatile

The distinguishing features of the different types are as follows:

- Viscosity
- Gap filling capacity
- Strength
- Colour
- Individual temperature resistance

The patented Pen system allows to dose the adhesives easily and user-friendly and to process them cleanly. WEICONLOCK products are furthermore resistant to temperature fluctuations, chemical substances and solvents and have a high shock- and vibration resistance.



Type - No.	Application	Features	Colour	For threaded connections up to -
AN 302-43	Threadlocking for passive materials, drinking water and DVGW ¹ approval	medium strength, higher viscosity	blue	M 36
AN 302-44	Threadlocking for passive materials, DVGW ¹ approval	medium strength, higher viscosity	blue	M 36
AN 302-60	Threadlocking for passive materials	high strength, medium viscosity	green	M 20 R ¾"
AN 302-80	Sealing of threaded pipes and fittings for passive materials	high strength, higher viscosity	green	M 36
AN 305-78	Sealing of threaded pipes and fittings for passive materials DVGW ¹ - approval	medium strength, high viscosity	yellow	M 80 R 3"
AN 306-10	Retaining cylindrical assemblies for passive materials	high strength, medium viscosity	green	M 20 R ¾"
AN 306-30	Retaining cylindrical assemblies for passive materials, BAM ² approval	high strength, higher viscosity	green	M 36

¹ DVGW Certificate for use in gas supply and hot water systems

² BAM Approval (Bundesanstalt für Materialforschung und -prüfung BAM)



Adhesives and Sealants

For high-alloyed steels and other passive materials

Active and passive materials

Surfaces & materials

Surfaces to be bonded can be divided into active and passive materials. Active materials are basically metals with a high content of iron or copper. Examples are iron, steel, copper or brass.

Active materials are capable of emitting many metal particles and allow the fast curing of the anaerobic adhesives while deprived of air.

The curing process is started by the effect of metal particles on the surface of the material under exclusion of the atmospheric oxygen.

Passive materials: (slow curing)	Active materials: (fast curing)
high-alloyed steel	bronze
aluminium, nickel, zinc, gold	iron
oxide layers	copper
chromate layers	brass
anodic coatings	steel
plastics and ceramics	

By contrast, passive materials like high-alloyed steel (stainless steel), zinc, aluminium or plastics, can emit only a small number of metal ions or none at all. For this reason, anaerobic adhesives usually cure only very slowly on these materials or only with the help of an activator.

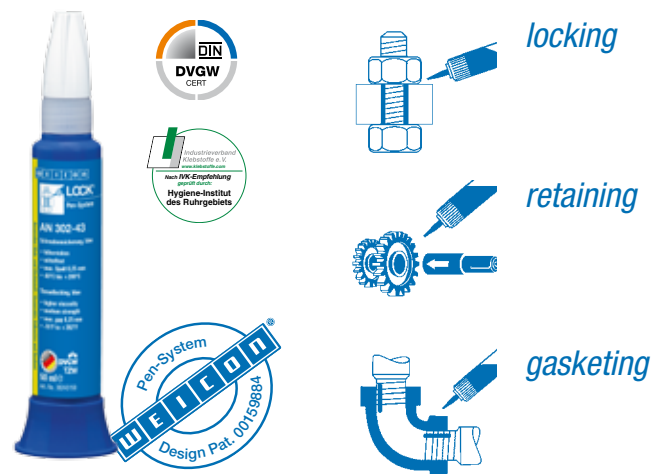
Quick and high strength joints

even without activator

Especially for use on passive materials we have developed particular types which are capable of curing on these problematic materials and of joining the components quickly and with high strength - and this without the use of an activator = no loss of strength!

The positive properties, like the resistance to vibration or the high temperature resistance, are completely maintained even during use on passive materials.

The values in the subsequent table illustrate the curing of these types which is up to 30% faster compared to the standard types, e.g. Types AN 302-70, AN 306-38.



Viscosity in mPa.s at +25°C (+77°F) Brookfield	Gap filling capacity in mm max.	Breakaway strength N/m (Thread*)	Prevailing strength N/m (Thread*)	Shear-strength** N/mm² (DIN 54452)	Handling strength at room temp. (minute)	Final strength at room temperature (hours)	Temperature resistance
2.000 - 7.000 mt	0,25	17 - 22	8 - 12	9 - 13 (1.305 - 1.885 psi)	10 - 20	1 - 3	-60°C to +200°C (-76°F to +392°F)
3.000 - 8.000 mt	0,25	8 - 12**	5 - 8**	9 - 13 (1.305 - 1.885 psi)	20 - 40**	4 - 8**	-60°C to +200°C (-76°F to +392°F)
700 - 1.000 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C to +180°C (-76°F to +356°F)
3.000 - 6.000 mt	0,20	35 - 45	50 - 70	20 - 30 (2.900 - 4.350 psi)	2 - 5	2 - 4	-60°C to +180°C (-76°F to +356°F)
50.000 - 80.000 ht	0,50	11 - 16**	4 - 7**	6 - 13 (870 - 1.885 psi)	25 - 50**	4 - 8**	-60°C to +150°C (-76°F to +302°F)
700 - 1.000 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075 psi)	2 - 5	2 - 4	-60°C to +180°C (-76°F to +356°F)
3.000 - 6.000 mt	0,20	35 - 45	50 - 70	20 - 30 (2.900 - 4.350 psi)	2 - 5	2 - 4	-60°C to +180°C (-76°F to +356°F)

*1 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

**2 Strength measured on V4A stainless steel screws

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