

Weiconlock AN 301-43 is a high-quality grade of thread locker designed for critical applications. This thread locker has been approved by NSF (per NSF/ANSI standard 61) for use in drinking water applications and has also been DIN DVGW approved for use in sealing gas lines and fittings. These approvals allow this thread locker to be used in a variety of applications in the food, beverage, cosmetic, medical and pharmaceutical industries.

Weiconlock AN 301-42 is a medium strength thread locking adhesive. This means the connections sealed and bonded with this grade will be able to be disassembled with normal tools when it is required. It also has a relatively high viscosity (thicker) which allows it to be accurately applied to small gauge threads, bolts and fittings without running.



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This blue thread locker can withstand temperatures up to 150°C and can cover bonding gaps up to 0.25mm. It can be used on threads up to M 36 in diameter and will achieve handling strength after around 5-15 minutes at room temperature. Like the vast, vast majority of Weiconlock grades, AN 301-43 is supplied using Weicon's special pen system which makes accurate application simple and easy.

AN 301-43 is part of the Weiconlock White Line of anaerobic adhesives. These have been specially developed to meet the stringent requirements of highly regulated industries.

Technical Details

Properties	
Colour	Purple
For Threaded Joints Up To	M 36
Viscosity at 25°C Brookfield	1,000 MPa
Gap Filling Capacity (Max.)	0.2mm
Breakaway Strength (Thread)	4 – 8 Nm
Prevailing Strength (Thread)	2 – 4 Nm
Shear Strength (DIN 54452)	3 – 5 N/mm ²
Handling Strength At Room Temperature	10 – 20 Minutes
Final Strength At Room Temperature	3 – 6 Hours
Temperature Resistance	-60°C to +150°C

Important

The values listed here and the information presented should not be treated as a substitute for specific technical advice. We cannot warrant the products performance or suitability for particular applications.

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Weiconlock Anaerobic Adhesives General Chemical Resistance Table

Acetaldehyde	+	Ethylene Dichloride	+	Perchloroethylene (Dry)	+
Acetate Solvent	+	Ethylene Glycol	+	Perchloric Acid (10%)	%+
Acetic Acid (10%)	%+	Fatty Acids	+	Permanganic	-
Acetic Acid (80%)	%O	Ferrous Sulphate	+	Peroxide Bleaching	+
Acetone	+	Formaldehyde (Cold)	+	Peroxy	-
Alcohols	+	Formic Acid (Cold)	+	Persulphuric (10%)	%+
Alkaline Solution	+	Freon	+	Phenol	+
Ammoniac Anhydride	-	Fuel Oil	+	Phenolic Resins	+
Ammonium Hydroxide	O	Fuming Nitric Acid	-	Phosphoric Acid 10% Hot	O
Amyl Acetate	+	Fuming Sulphuric Acid	-	Phosphoric Acid 10% Cold	+
Aniline	+	Gasoline	+	Phosphoric Acid 50% Hot	O
Aromatic Gasoline	+	Glycolic Acid	+	Phosphoric Acid 50% Cold	O
Aromatic Solvent	+	Glycerine	+	Phosphoric Acid 85% Hot	-
Ash Slurry	+	Grease Lubrication	+	Phosphoric Acid 85% Cold	O
Barium Sulphate	+	Hydrogen Bromide (10%)	%+	Phthalic	+
Battery Acid (10%)	%+	Hydrocyanic Acid (10%)	%+	Potash Alum	+
Benzene	+	Hydrogen	+	Potassium Acetate	+
Benzoic Acid	+	Hydrogen Peroxide	O	Potassium Hydroxide	-
Boric Acid	+	Concentrate	O	Pyridine	+
Brake Fluid	+	Hydrofluoric Acid	-	River Water	+
Butadiene	+	Heptane	+	Sewage	+
Butyric (10%)	%+	Hydrazine	+	Sea Water	+
Butylaldehyde	+	Hydrochloric Acid	O	Silicone Oils	+
Butylamine	+	Isocyanate Resin	+	Sorbitol	+
Butyl Acetate	+	Isooctane	+	Steam Sterilisation	+
Butyl Chloride	+	Ketones	+	Styrene	+
Cadmium Sulphate	+	Lithium Chloride	+	Sulfones	+
Castor Oil	+	Maleic	+	Sulfonic Acids (10%)	%+
Cellulose Acetate	+	Melamine Resin	+	Sulphuric Acid (75-100%)	%-
Chinon	+	Mercaptan, Thioalcohol	+	Sulphur Mud Solution in	+
Chlorine (Dry)	-	Methane	+	Carbon Disulphide	+
Chlorine Alcohol	+	Methylamine	+	Sulphurous Acid	O
Chloramine	+	Methyl Ethyl Ketone	+	Sulphuric Acid (75%)	%O
Chlorine Dioxide	O	Methyl Acetate	+	Turpentine	+
Chlorinated Hydrocarbon	+	Mineral Oil, White	+	Thiourea	+
Chloroform (Dry)	+	Mine Water	+	Toulene, Methylbenzene	+
Coal Tar	+	Naphtha, Petroleum	+	Trichloroethane	+
Copper Chloride	+	Naphthalene	+	Trichloromethane	+
Copper Sulphate	+	Natronhydroxyd 20% hot	%O	Trioxane	+
Cold Salt Water	+	Natronhydroxyd 20% cold	%+	Vapor Pressure (Low)	+
Developer Liquid	+	Natronhydroxyd 50% hot	%-	Vaseline	+
Dichloroethylether	+	Natronhydroxyd 50% cold	%O	Vinyl Acetate	+
Diethyl ether	+	Natronhydroxyd 70% hot	%-	Wax	+
Diglycollic	+	Natronhydroxyd 70% cold	%O	Xylene, Dimethylbenzene	+
Dioxane (Dry)	+	Nitric Acid (20%)	%+		
Emulsified Oils	+	Oils	+		
Ethyl Acetate	+	Oxalic Acid	+		
Ethylenediamine	+	Paraffin Oil, Kerosene	+		

+ = Good Resistance

O = Preliminary Tests or Resistance Tests are Recommended

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

- = Weiconlock adhesives are not suitable, or may be used only after thorough preliminary tests

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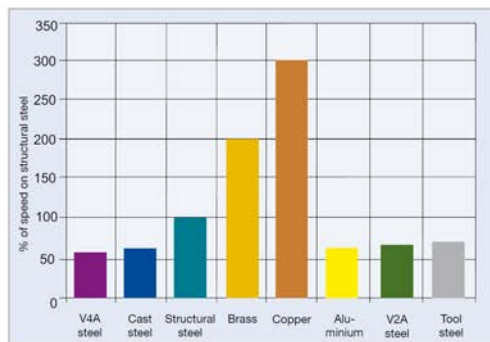
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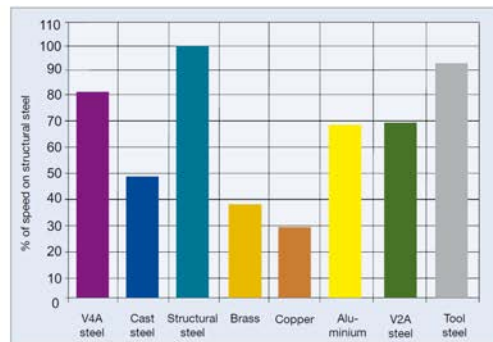
Weiconlock Adhesives General Information

All grades of Weiconlock are high quality anaerobic adhesives based on specialised methacrylate resins. While the grades differ in cure time, temperature resistance, cure strength, colour, viscosity and more; one thing that unites them is the fact that they only cure when in contact with metal and deprived of air. This special feature allows Weiconlock adhesives to be very easy to use as there's essentially no pot life.

As liquid adhesives, Weiconlock adhesives completely fill any gaps and thus protect against leakage and fretting corrosion. Once cured, these high quality adhesives form a shock and vibration resistant joint with excellent resistance to chemicals and solvents.



Approximate Curing Speed of Weiconlock
By Material



Compression Shear Strength of Weiconlock
Varying according to Metal (DIN 544521)

Preparation of the Surface

In general, Weiconlock adhesives do not require special surface pre-treatment as slightly oily surfaces (e.g. on 'as received' parts) will be tolerated. However, best results will be achieved if Weiconlock is used on parts that are cleaned and degreased (Cleaner S may be ideal). If required, the parts should be slightly roughened.

Application

Weiconlock AN 302-22 is ready for use as soon as the bottle is opened and should be applied evenly and directly from the bottle/tube with the dispensing tip (avoid direct contact of tip with metal). On press fitted parts and larger cylindrical assemblies a thin uniform layer should be applied to both surfaces. In the case of blind threaded holes, dispense a sufficient quantity into the bore hole. On screws and bolts, apply AN 302-22 around the thread.

Do not pour any Weiconlock fluid that has had contact with metal back into the bottle. Even the smallest quantity of metal particles will cause the content of the bottle to cure. In series construction, the use of manual or automatic applicators is possible.

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Physiological properties / health and safety at work

Weiconlock adhesives generally do not cause allergic reactions to 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 the use of Weicon Hand Protective Foam). For more information on this topic, please refer to the appropriate SDS.

Weiconlock Activator F

The cure time of all grades of Weiconlock adhesives can be reduced by pre-treating surfaces with Weiconlock Activator F which is recommended for all passive surfaces (such as high alloyed steel, chromate layers, plastics, ceramics, aluminium, zinc or nickel) and which is indispensable when working in low temperature (+10°C and below) environments or when covering large gaps. On non-metallic surfaces, Weiconlock AN 301-43 is made effective by the activator.

Cure

Weiconlock remains liquid as long as it is in contact with the air. Curing starts when Weiconlock is in contact with metal and deprived of air. Observable cure time is influenced not only by the type of Weiconlock, but also the material(s) it is exposed to and the environmental temperature.

Dismantling

Weiconlock AN 302-22 cures with low strength to allow for easy disassembly of locked connections when required. Threads locked and sealed with this grade will be able to be dismantled through the use of normal tools or, in some cases, hand pressure.

Storage

Weiconlock AN 302-22 can be stored in its unopened original container for at least 12 months at room temperature. Keep away from heat sources and direct sunlight.

Availability

Weiconlock AN 302-22 Thread Locking Adhesive is available from Sift Supplies in 20ml, 50ml and 200ml Pens.

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