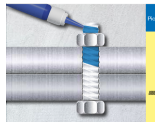
WEICON Adhesive FINDER
www.adhesive-finder.com

Quality Made in Germany

WEICON®

# WEICONLOCK® Type Selection Chart



## Thread locking

- Bolts and nuts
- Stud bolts

| Pictogram | Typ-No. | Application | Colour | For threaded joints up to | Viscosity at +25°C in mPa.s Brookfield | Gap filling capacity in mm/max. | Breakaway strength / Nm (Thread*) | Prevailing strength Nm (Thread*) | Shear strength** N/mm² / (psi (DIN 54452) | Handling strength at room temperature | Final strength at room temperature | Temperature resistance °C / (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AN 302-21 | Threadlocking, vibration proof; low viscosity, low strength, easy disassembly | purple | M 12 | 125 | 0,10 | 7 - 10 | 3 - 6 | 4 - 7 (580 - 1.015) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-22 | Threadlocking, vibration proof; medium viscosity, low strength, easy disassembly | purple | M 36 | 1.000 mt | 0,20 | 4 - 8 | 2 - 4 | 3 - 5 (435 - 725) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-40 | Threadlocking, vibration proof; DVGW approval, medium viscosity, medium strength, disassembly with normal tools | transparent | M 20 R ¾" | 600 mt | 0,15 | 12 - 16 | 18 - 24 | 6 - 12 (1.160 - 1.740) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-41 | Threadlocking; low viscosity, medium strength, disassembly with normal tools | blue | M 12 | 125 mt | 0,10 | 10 - 15 | 12 - 16 | 6 - 12 (1.160 - 1.740) | 10 - 20 | ca. 3 | -60 to +150 (-76 to + 302) |
| | AN 301-43 | Threadlocking, drinking water* and DVGW approval, higher viscosity, medium strength, disassembly with normal tools | blue | M 36 | 2.000 - 8.000 mt | 0,25 | 16 - 22 | 9 - 11 | 10 - 13 (1.450 - 1.885) | 5 - 15 | 1 - 3 | -60 to +150 (-76 to + 302) |
| | AN 301-70 | Threadlocking, drinking water* approval, medium viscosity, high strength, hard to disassemble | green | M 25 | 500 - 900 mt | 0,15 | 25 - 35 | 40 - 50 | 14 - 20 (2.030 - 2.900) | 5 - 15 | 5 - 10 | -60 to +150 (-76 to + 302) |
| | AN 302-42 | Threadlocking; drinking water* approval, medium viscosity, medium strength, disassembly with normal tools | blue | M 36 | 1.000 mt | 0,20 | 14 - 18 | 5 - 8 | 6 - 12 (1.160 - 1.740) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-43 | Universal threadlocking type; drinking water* and DVGW* approval, higher viscosity, medium strength, disassembly with normal tools | blue | M 36 | 2.000 - 7.000 mt | 0,25 | 17 - 22 | 8 - 12 | 9 - 13 (1.305 - 1.885) | 10 - 20 | 1 - 3 | -60 to +200 (-76 to + 392) |
| | AN 302-44 | Threadlocking, drinking water* and DVGW* approval, higher viscosity, medium strength, easy disassembly | blue | M 36 | 3.000 - 8.000 mt | 0,25 | 17 - 22<br>8 - 12*** | 8 - 12<br>5 - 8*** | 9 - 13 (1.305 - 1.885) | 10 - 20<br>20 - 40*** | 1 - 3<br>4 - 8*** | -60 to +200 (-76 to + 392) |
| | AN 302-50 | Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble | transparent | M 20 R ¾"- | 500 mt | 0,15 | 30 - 35 | 55 - 70 | 25 - 35 (3.625 - 5.075) | 2 - 5 | 2 - 4 | -60 to +175 (-76 to + 347) |
| | AN 302-60 | Threadlocking for passive materials such as stainless steel, drinking water* approval, aluminium, etc; fast bonding without activator; medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 700 - 1.000 mt | 0,15 | 30 - 35<br>15 - 20*** | 55 - 70<br>30 - 35*** | 25 - 35 (3.625 - 5.075) | 2 - 5<br>5 - 10*** | 2 - 4<br>6 - 12*** | -60 to +200 (-76 to + 392) |
| | AN 302-70 | Locking of threads and stud bolts; drinking water* and DVGW* approval, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 500 mt | 0,15 | 25 - 35 | 50 - 65 | 15 - 20 (2.175 - 2.900) | 10 - 20 | 3 - 6 | -60 to +200 (-76 to + 392) |
| | AN 302-71 | Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble | red | M 20 R ¾" | 500 mt | 0,15 | 25 - 35 | 50 - 65 | 15 - 20 (2.175 - 2.900) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-72 | Locking of threads and stud bolts; drinking water* and DVGW* approval, high temperature resistant, higher viscosity, high strength, hard to disassemble | red | M 56 R ½" | 6.000 - 15.000 mt | 0,30 | 20 - 30 | 40 - 75 | 10 - 15 (1.450 - 2.175) | 20 - 40 | 5 - 10 | -60 to +230 (-76 to + 446) |
| | AN 302-90 | Threadlocking, for locking after mounting and sealing of hair cracks; low viscosity, high strength, hard to disassemble | green | M 5 kapillar | 10 - 20 | 0,07 | 15 - 25 | 30 - 40 | 6 - 12 (1.160 - 1.740) | 5 - 20 | ca. 3 | -60 to +150 (-76 to + 302) |
| | AN 302-62 | Threadlocking; higher viscosity, high strength, hard to disassemble | red | M 36 | 1.500 - 6.500 mt | 0,25 | 20 - 25 | 40 - 55 | 10 - 15 (1.450 - 2.175) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |

## Sealing of threaded pipes and fittings

- Threaded connections
- Hydraulic and pneumatic systems
- Cooler and compressed air systems

| Pictogram | Typ-No. | Application | Colour | For threaded joints up to | Viscosity at +25°C in mPa.s Brookfield | Gap filling capacity in mm/max. | Breakaway strength / Nm (Thread*) | Prevailing strength Nm (Thread*) | Shear strength** N/mm² / (psi (DIN 54452) | Handling strength at room temperature | Final strength at room temperature | Temperature resistance °C / (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | SI 303-31 | Pipe and thread sealing for plastics, drinking water* approval, low strength | white | M 60 R 3" | paste/stable | 0,50 | < 1,5 | < 0,5 | < 1 | 24 | 3 | -40 to +100 (-40 to + 356) |
| | AN 301-66 | Pipe and flange sealing (with PTFE), drinking water approval*, high viscosity, medium strength, disassembly with normal tools | white | M 60 R 3" | 180.000 - 300.000 | 0,50 | 4 - 8 | 1 - 3 | 2 - 6 (290 - 870) | 10 - 20 | 24 | -60 to +150 (-76 to + 302) |
| | AN 301-72 | Pipe and flange sealing (with PTFE), drinking water* and DVGW* approval, WRAS high viscosity, medium strength, disassembly with normal tools | white | M 60 R 3" | 15.000 - 60.000 mt | 0,30 | 5 - 10 | 4 - 6 | 5 - 7 (725 - 1.015) | 15 - 30 | 6 - 12 | -60 to +200 (-76 to + 392) |
| | AN 305-67 | Pipe and flange sealing (with PTFE) high viscosity, low strength, easy disassembly | white | M 60 R 3" | 170.000 - 410.000 | 0,60 | 3 - 5 | 2 - 4 | 6 - 8 (870 - 1.160) | 120 - 240 | 24 - 72 | -50 to +175 (-58 to + 347) |
| | AN 302-25 | Sealing of threaded pipes and fittings, vibration-proof; high viscosity, low strength, easy disassembly | brown | M 60 R 3" | 6.000 - 30.000 mt | 0,30 | 5 - 8 | 2 - 4 | 3 - 5 (435 - 725) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-45 | Sealing of threaded pipes and fittings for coarse threaded connections; DVGW* approval; high viscosity, medium strength, disassembly with normal tools | blue | M 60 R 3" | 6.000 - 30.000 mt | 0,30 | 10 - 15 | 12 - 18 | 8 - 12 (1.160 - 1.740) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-75 | Sealing of threaded pipes and fittings for coarse threaded parts and flanges; BAM*, high viscosity, high strength, hard to disassemble | green | M 60 R 3" | 14.000 - 24.000 mt | 0,30 | 40 - 50 | 40 - 50 | 15 - 25 (2.175 - 3.625) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 302-77 | Sealing of threaded pipes and fittings for coarse threaded parts and flanges; high viscosity, high strength, hard to disassemble | red | M 36 | 6.000 | 0,25 | 30 - 40 | 10 - 15 | 35 - 45 (5.075 - 6.525) | 40 - 60 | 6 - 12 | -60 to +150 (-76 to + 302) |
| | AN 305-76 | Pipe and flange sealing for passive materials, drinking water* and DVGW* approval, BAM*, high viscosity, medium strength, disassembly with normal tools | yellow | M 60 R 3" | 90.000 - 80.000 mt | 0,50 | 16 - 22<br>11 - 16*** | 10 - 14<br>4 - 7*** | 6 - 13 (870 - 1.885) | 15 - 30<br>25 - 50*** | 1 - 3<br>4 - 8*** | -60 to +150 (-76 to + 302) |
| | AN 302-80 | Sealing of threaded pipes and fittings for passive materials such as stainless steel, aluminium,etc; fast bonding without activator; higher viscosity, drinking water*, high strength, hard to disassemble | green | M 36 | 3.000 - 6.000 mt | 0,20 | 35 - 45<br>15 - 20*** | 50 - 70<br>25 - 30*** | 20 - 30 (2.900 - 4.350) | 2 - 5<br>5 - 10*** | 2 - 4<br>6 - 12*** | -60 to +200 (-76 to + 392) |
| | AN 305-42 | Sealing of hydraulic and pneumatic systems, universal product; DVGW* approval, medium viscosity, medium strength, disassembly with normal tools | brown | M 20 R ¾" | 500 mt | 0,15 | 12 - 15 | 18 - 22 | 6 - 12 (1.160 - 1.740) | 10 - 20 | 2 - 4 | -60 to +150 (-76 to + 302) |
| | AN 305-72 | Pipe and flange sealing (with PTFE), instant seal, drinking water*, DVGW* and AGA* approval, high viscosity, medium strength, disassembly with normal tools | white | M 60 R 3" | 17.000 - 50.000 mt | 0,40 | 7 - 10 | 2 - 4 | 4 - 6 (580 - 870) | 20 - 40 | 5 - 10 | -60 to +150 (-76 to + 302) |
| | AN 305-11 | Sealing of threaded pipes and fittings; drinking water* and DVGW* approval, higher viscosity, medium strength, disassembly with normal tools | white | M 60 R 3" | 17.000 - 50.000 mt | 0,40 | 7 - 10 | 2 - 4 | 4 - 6 (580 - 870) | 20 - 40 | 5 - 10 | -60 to +150 (-76 to + 302) |
| | AN 305-77 | Universal sealing agent for pipes and fittings; drinking water*, DVGW* and AGA* approval, BAM*, NSF 61, WRAS, high viscosity, medium strength, disassembly with normal tools | yellow | M 60 R 3" | 24.000 - 70.000 mt | 0,50 | 18 - 22 | 10 - 14 | 6 - 13 (870 - 1.885) | 15 - 30 | 1 - 3 | -60 to +150 (-76 to + 302) |
| | AN 305-86 | Pipe sealing, extra strong higher viscosity, hard to disassemble | red | M 56 R 2" | 6.000 - 7.000 mt | 0,30 | 15 - 30 | 25 - 45 | 10 - 20 (1.450 - 2.900) | 60 - 90 | 12 - 24 | -60 to +150 (-76 to + 302) |

## Retaining cylindrical assemblies

- Shaft / hub-connections
- Coupling hubs, pulleys, bearings
- Cylindrical parts; slip-, press- or shrunk-fitted

| Pictogram | Typ-No. | Application | Colour | For threaded joints up to | Viscosity at +25°C in mPa.s Brookfield | Gap filling capacity in mm/max. | Breakaway strength / Nm (Thread*) | Prevailing strength Nm (Thread*) | Shear strength** N/mm² / (psi (DIN 54452) | Handling strength at room temperature | Final strength at room temperature | Temperature resistance °C / (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AN 301-38 | Retaining cylindrical assemblies, drinking water* approval, medium viscosity, high strength, hard to disassemble | green | M 36 | 2.000 - 3.000 mt | 0,20 | 30 - 40 | 45 - 60 | 20 - 25 (2.900 - 3.625) | ca. 5 | 2 - 4 | -60 to +150 (-76 to + 302) |
| | AN 301-48 | Retaining cylindrical assemblies, drinking water* and DVGW* approval, WRAS, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 450 - 650 mt | 0,15 | 25 - 30 | 40 - 55 | 25 - 30 (3.625 - 4.350) | 2 - 6 | 2 - 4 | -60 to +175 (-76 to + 347) |
| | AN 306-01 | Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble | green | M 12 | 125 mt | 0,10 | 25 - 30 | 50 - 60 | 17 - 22 (2.466 - 3.190) | 10 - 20 | 2 - 4 | -60 to +150 (-76 to + 302) |
| | AN 306-03 | Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble | green | M 12 | 125 mt | 0,10 | 25 - 30 | 50 - 60 | 15 - 18 (2.175 - 2.610) | 10 - 20 | 2 - 4 | -60 to +150 (-76 to + 302) |
| | AN 306-10 | Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium; etc fast bonding without activator; BAM, higher viscosity, medium strength, hard to disassemble | green | M 20 R ¾" | 700 - 1.000 mt | 0,15 | 30 - 35<br>15 - 20*** | 55 - 70<br>30 - 35*** | 25 - 35 (3.625 - 5.075) | 2 - 5<br>5 - 10*** | 2 - 4<br>6 - 12*** | -60 to +200 (-76 to + 392) |
| | AN 306-20 | Retaining cylindrical assemblies, drinking water* and DVGW* approval, BAM*, WRAS, high-temperature resistant; higher viscosity, high strength, hard to disassemble | green | M 56 R 2" | 3.000 - 6.000 mt | 0,20 | 26 - 36 | 40 - 55 | 15 - 25 (2.175 - 3.625) | 20 - 40 | ca. 24 | -60 to +200 (-76 to + 392) |
| | AN 306-30 | Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc - fast bonding without activator; BAM, higher viscosity, high strength, hard to disassemble; drinking water* approval | green | M 36 | 3.000 - 6.000 mt | 0,20 | 35 - 45<br>15 - 20*** | 50 - 70<br>25 - 30*** | 20 - 30 (2.900 - 4.350) | 2 - 5<br>5 - 10*** | 2 - 4<br>6 - 12*** | -60 to +200 (-76 to + 392) |
| | AN 306-40 | Retaining cylindrical assemblies, high-temperature resistant, slow curing; medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 600 mt | 0,15 | 20 - 30 | 30 - 40 | 15 - 30 (2.175 - 4.350) | ca. 240 | ca. 24 | -60 to +200 (-76 to + 392) |
| | AN 306-46 | Retaining cylindrical assemblies, high-temperature resistant; drinking water* approval, BAM*, medium viscosity, high strength, hard to disassemble | green | M 20 R ¾" | 550 mt | 0,15 | 30 - 35 | 55 - 70 | 25 - 35 (3.625 - 5.075) | ca. 5 | 2 - 4 | -60 to +175 (-76 to + 347) |
| | AN 306-41 | Retaining cylindrical assemblies, medium viscosity, medium strength, disassembly with normal tools | yellow | M 20 R ¾" | 550 mt | 0,12 | 12 - 15 | 17 - 22 | 6 - 12 (1.160 - 1.740) | 10 - 20 | 3 - 6 | -60 to +150 (-76 to + 302) |
| | AN 306-38 | Retaining cylindrical assemblies under high dynamical stress, fast curing; drinking water* approval, medium viscosity, high strength, hard to disassemble | green | M 36 | 2.500 mt | 0,20 | 35 - 45 | 50 - 70 | 25 - 30 (3.625 - 4.350) | ca. 5 | 1 - 3 | -60 to +150 (-76 to + 302) |
| | AN 306-60 | Assembly of cylindrical parts; Ideal for repair of worn out shafts, bearing seats and housings; ideal as well as for large gaps up to 0,5 mm; high viscosity, high strength, hard to disassemble | silver | M 56 R2" | 150.000 - 900.000 mt | 0,50 | 35 - 45 | 10 - 20 | 25 - 30 (3.625 - 4.350) | 15 - 30 | 3 - 6 | -60 to +150 (-76 to + 302) |

## Flange sealing, gasketing

- Flanges
- Cases
- Lids

| Pictogram | Typ-No. | Application | Colour | For threaded joints up to | Viscosity at +25°C in mPa.s Brookfield | Gap filling capacity in mm/max. | Breakaway strength / Nm (Thread*) | Prevailing strength Nm (Thread*) | Shear strength** N/mm² / (psi (DIN 54452) | Handling strength at room temperature | Final strength at room temperature | Temperature resistance °C / (°F) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AN 301-65 | Pipe and flange sealing (with PTFE) drinking water*approval, high viscosity, medium strength, disassembly with normal tools | white | M 60 R 3" | 180.000 - 300.000 | 0,50 | 4 - 8 | 1 - 3 | 2 - 6 (290 - 870) | 10 - 20 | 24 | -60 to +150 (-76 to + 302) |
| | AN 301-72 | Pipe and flange sealing (with PTFE) drinking water* and DVGW approval, WRAS high viscosity, medium strength, disassembly with normal tools | white | M 60 R 3" | 15.000 - 60.000 mt | 0,30 | 5 - 10 | 4 - 6 | 5 - 7 (725 - 1.015) | 15 - 30 | 6 - 12 | -60 to +200 (-76 to + 392) |
| | AN 305-18 | Flange sealing and gasketing, large gap-filling with instant seal; high viscosity, high strength, hard to disassemble | red | --- | 80.000 - 500.000 mt | 0,50 | 12 - 18 | 18 - 24 | 8 - 13 (1.160 - 1.885) | 10 - 20 | 3 - 6 | -60 to +200 (-76 to + 392) |
| | AN 305-67 | Pipe and flange sealing (with PTFE) high viscosity, low strength | white | M 60 R 3" | 17.000 - 410.000 mt | 0,60 | 3 - 5 | 2 - 4 | 6 - 8 (870 - 1.160) | 120 - 240 | 24 - 72 | -50 to +175 (-58 to + 347) |
| | AN 305-72 | Pipe and flange sealing (with PTFE), instant seal, drinking water*, DVGW* and AGA* approval, high viscosity medium strength, disassembly with normal tools | white | M 60 R 3" | 17.000 - 50.000 mt | 0,40 | 7 - 10 | 2 - 4 | 4 - 6 (580 - 870) | 20 - 40 | 5 - 10 | -60 to +150 (-76 to + 302) |
| | AN 305-74 | Gasketing of flanges, gearboxes and motor housings, universal type, high-temperature resistant; high viscosity, high strength, hard to disassemble | orange | --- | 30.000 - 100.000 mt | 0,50 | 16 - 24 | 5 - 10 | 5 - 10 (725 - 1.450) | 15 - 30 | ca. 12 | -60 to +180 (-76 to + 356) |
| | AN 305-10 | Gasketing of flanges, gearboxes and motor housings, high-temperature resistant; AGA* approval, BAM*, high viscosity, high strength, hard to disassemble | orange | --- | 70.000 - 300.000 mt | 0,50 | 18 - 25 | 15 - 25 | 5 - 10 (725 - 1.450) | 15 - 30 | 6 - 12 | -60 to +200 (-76 to + 392) |
| | AN 305-73 | Gasketing of flanges, gearboxes and motor housings, elastic; high viscosity, low strength, easy disassembly | light green | --- | 17.000 - 50.000 mt | 0,30 | 6 - 10 | 2 - 5 | 4 - 6 (580 - 870) | 20 - 40 | ca. 12 | -60 to +150 (-76 to + 302) |

## Recommended additional products

| Product | Application | Content | Colour | Odour |
|---|---|---|---|---|
| Thread Sealing Cord DF 175 | For permanent and safe sealing of almost all metal- and plastic threads. | Maestro can 175 m | white | no odour |
| Plast-o-Seal® | For sealing the smoothly treated flanges of machine, gearbox and motor casing flanges. Improves the performance of both old and new gaskets. | 90g /120g 300g | blue | no odour |
| Surface Cleaner | For cleaning and degreasing of surfaces to be joined or sealed with WEICON adhesives and sealants. | 150 ml 400 ml | colourless | solvent |
| Sealant and Adhesive Remover | Removes residues of cured sealants and adhesives as well as oil, charcoal, lacquers and paints. | 400 ml | milky | solvent |
| Activator F Spray Activator F liquid | For activating passive surfaces, like e.g. aluminium, stainless steel, zinc, chrome, etc. as well as in case of low ambient temperatures (less than + 10°C) and for large gaps. | 200 ml 1000 ml | turquoise | solvent |

* Hygiene-Institut des Ruhrgebietes
** DIN EN 1465 Determination of shear strength of two rigid adherends
*** BAM tested and safety relevant approval according to DaMoS 50 (01.)
Approval according to DaMoS 50 (01.) with exception
(DA) Alternatively (DS) 80% of (R) 100
* Trinkwasser-Institut - Approved
Gas Class 3 (DS 80%)
* Certified to NSF/ANSI 61
* Approved according to DIN 2880/DVGW for long-term use in potable/drinking water
(P) Copper and Ni alloy / Alloyed Ni / Alloy of Fe/Ni (Fe/Ni > 1/1)
* Suitable for potable/drinking water
(P) Copper and Ni alloy / Alloyed Ni / Alloy of Fe/Ni (Fe/Ni > 1/1)
* Strength values based on Fe/Fe steel, S3 steel, thickness of test 2,5 mm
(Ms) Steel strength values on (Cu/Ni/Zn) parts of steel
(Al) Steel strength values on (Al/Mg) parts of steel
(Cu) Steel strength values on (Cu/Sn/Pb/Zn) parts of steel
* Strength measured on non-aluminium base metals
* Strength values based on Fe/Fe steel, S3 steel, thickness of test 2,5 mm
(Ms) Steel strength values on (Cu/Ni/Zn) parts of steel
(Al) Steel strength values on (Al/Mg) parts of steel
(Cu) Steel strength values on (Cu/Sn/Pb/Zn) parts of steel
* Strength measured on non-aluminium base metals

All recommendations and technical details are based on laboratory tests and extensive experience by users. They have been compiled with greatest care but we cannot guarantee for every trial and accept no liability for the results obtained.

Your personal contact
WhatsApp

- Questions on PRODUCTS
- Product Finder & Partner Displaying Systems
- Price Request + Alternatives to Competitive Products
- Questions on Product Samples
- Adhesive Finder www.adhesive-finder.com

WEICON GmbH & Co. KG
Königsberger Str. 253 - DE - 59174 Kamen
P.O. Box 54 60 - DE - 59195 Kamen - Germany
Tel. +49 23 07/ 202-0