

# WEICONLOCK® type selection chart

Typ-No.	Pictogram	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** Nmm² / (psi) (DIN 54452)	Handling strength at room temperature	Final strength at room temperature	Temperature resistance °C / (°F)	Strength values based on M 10 screws, 8.8 grade, thickness of nut 0.8 d ** Static shear strength based on cylindrical parts of diameter Ø 10 mm, tolerance Ø = +0.05 mm, l/d = 0.88
<b>Threadlocking</b>													
<b>AN 301-43</b>		Threadlocking, approved to NSF <sup>3</sup> -/DVGW <sup>4</sup> , higher viscosity, medium strength, disassembly with normal tools	blue	M 36	2.000 - 8.000 mt	0,25	18 - 22	9 - 11	10 - 13 (1.450 - 1.885)	5 - 15	1 - 3	-60 to +150 (-76 to +302)	
<b>AN 301-70</b>		Threadlocking, approved to NSF <sup>3</sup> , medium viscosity, high strength, hard to disassemble	green	M 25	500 - 900 nt	0,15	25 - 35	40 - 50	14 - 20 (2.030 - 2.900)	5 - 15	5 - 10	-60 to +150 (-76 to +302)	
<b>AN 302-21</b>		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)	
<b>AN 302-22</b>		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)	
<b>AN 302-40</b>		Threadlocking, vibration-proof; approved to DVGW <sup>4</sup> ; medium viscosity, medium strength, disassembly with normal tools	transparent	M 20 R 3/4"	600 nt	0,15	12 - 16	18 - 24	8 - 12 (1.160 - 1.740)	10 - 20	3 - 6	-60 to +150 (-76 to +302)	
<b>AN 302-41</b>		Threadlocking; low viscosity, medium strength, disassembly with normal tools	blue	M 12	125 nt	0,10	10 - 15	12 - 16	8 - 12 (1.160 - 1.740)	10 - 20	ca. 3	-60 to +150 (-76 to +302)	
<b>AN 302-42</b>		Threadlocking; medium viscosity, medium strength, disassembly with normal tools	blue	M 36	1.000 mt	0,20	14 - 18	5 - 8	8 - 12 (1.160 - 1.740)	10 - 20	3 - 6	-60 to +150 (-76 to +302)	
<b>AN 302-43</b>		Universal threadlocking type; approved to DVGW <sup>4</sup> /KTW <sup>1</sup> ; 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 +150 (-76 to +302)	
<b>AN 302-44</b>		Threadlocking, approved to DVGW <sup>4</sup> ; higher viscosity, medium strength, easy disassembly	blue	M 36	3.000 - 8.000 mt	0,25	8 - 12	5 - 8	9 - 13 (1.305 - 1.885)	20 - 40	4 - 8	-60 to +150 (-76 to +302)	
<b>AN 302-50</b>		Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble	transparent	M 20 R 3/4"	500 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075)	2 - 5	2 - 4	-60 to +175 (-76 to +347)	
<b>AN 302-60</b>		Threadlocking for passive materials such as stainless steel, aluminium, etc. - fast bonding without activator; medium viscosity, high strength, hard to disassemble	green	M 20 R 3/4"	700 - 1.000 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075)	2 - 5	2 - 4	-60 to +180 (-76 to +356)	
<b>AN 302-62</b>		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)	
<b>AN 302-70</b>		Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble	green	M 20 R 3/4"	500 nt	0,15	28 - 35	50 - 65	15 - 20 (2.175 - 2.900)	10 - 20	3 - 6	-60 to +150 (-76 to +302)	
<b>AN 302-71</b>		Locking of threads and stud bolts; medium viscosity, high strength, hard to disassemble	red	M 20 R 3/4"	500 nt	0,15	28 - 35	50 - 65	15 - 20 (2.175 - 2.900)	10 - 20	3 - 6	-60 to +150 (-76 to +302)	
<b>AN 302-72</b>		Locking of threads and stud bolts; high-temperature resistant, higher viscosity, high strength, hard to disassemble	red	M 56 R 1/2"	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)	
<b>AN 302-90</b>		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	8 - 12 (1.160 - 1.740)	5 - 20	ca. 3	-60 to +150 (-76 to +302)	
<b>Sealing of threaded pipes and fittings</b>													
<b>AN 301-65</b>		Pipe and flange sealing, (with PTFE) approved to NSF <sup>3</sup> -/DVGW <sup>4</sup> ; high viscosity, medium strength, disassembly with normal tools; high-temperature resistant.	white	M 80 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)	
<b>AN 301-72</b>		Pipe and flange sealing (with PTFE) approved to NSF <sup>3</sup> -/DVGW <sup>4</sup> ; high viscosity, medium strength, disassembly with normal tools	white	M 80 R 3"	15.000 - 60.000 ht	0,30	5 - 10	4 - 6	5 - 7 (725 - 1.015)	15 - 30	6 - 12	-60 to +200 (-76 to +392)	
<b>AN 302-25</b>		Sealing of threaded pipes and fittings, vibration-proof; high viscosity, low strength, easy disassembly	brown	M 80 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)	
<b>AN 302-45</b>		Sealing of threaded pipes and fittings for coarse threaded connections; high viscosity, medium strength, disassembly with normal tools	blue	M 80 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)	
<b>AN 302-75</b>		Sealing of threaded pipes and fittings for coarse threaded parts and flanges; high viscosity, high strength, hard to disassemble	green	M 80 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)	
<b>AN 302-77</b>		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)	
<b>AN 302-80</b>		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	green	M 36	3.000 - 6.000 mt	0,20	35 - 45	50 - 70	20 - 30 (2.900 - 4.350)	2 - 5	2 - 4	-60 to +180 (-76 to +356)	
<b>AN 305-11</b>		Sealing of threaded pipes and fittings; approved by DVGW <sup>4</sup> /to KTW <sup>1</sup> ; higher viscosity, medium strength, disassembly with normal tools	white	M 80 R 3"	17.000 - 50.000 ht	0,40	7 - 10	2 - 4	4 - 6 (580 - 870)	20 - 40	5 - 10	-60 to +150 (-76 to +302)	
<b>AN 305-42</b>		Sealing of hydraulic and pneumatic systems, universal product; medium viscosity, medium strength, disassembly with normal tools	brown	M 20 R 3/4"	500 nt	0,15	12 - 15	18 - 22	8 - 12 (1.160 - 1.740)	10 - 20	2 - 4	-60 to +150 (-76 to +302)	
<b>AN 305-67</b>		Pipe and flange sealing (with PTFE) high viscosity, low strength, easy disassembly	white	M 80 R 3"	170.000 - 410.000	0,50	3 - 5	2 - 4	6 - 8 (870 - 1.160)	120 - 240	24 - 72	-50 to +175 (-58 to +347)	
<b>AN 305-72</b>		Pipe and flange sealing (with PTFE), instant seal, appr. by DVGW <sup>4</sup> /to KTW <sup>1</sup> ; high viscosity, medium strength, disassembly with normal tools	white	M 80 R 3"	17.000 - 50.000 ht	0,40	7 - 10	2 - 4	4 - 6 (580 - 870)	20 - 40	5 - 10	-60 to +150 (-76 to +302)	
<b>AN 305-77</b>		Universal sealing type for pipes and fittings; BAM <sup>5</sup> approval for gaseous oxygen, high viscosity, medium strength, disassembly with normal tools	yellow	M 80 R 3"	24.000 - 70.000 ht	0,50	18 - 22	10 - 14	6 - 13 (870 - 1.885)	15 - 30	1 - 3	-60 to +150 (-76 to +302)	
<b>AN 305-78</b>		Pipe and flange sealing for passive materials, appr. by DVGW <sup>4</sup> ; high viscosity, medium strength, disassembly with normal tools	yellow	M 80 R 3"	50.000 - 80.000 ht	0,50	11 - 16**	4 - 7**	6 - 13 (870 - 1.885)	25 - 50**	4 - 8**	-60 bis +150 (-76 bis +302)	
<b>AN 305-86</b>		Pipe sealing, extra strong higher viscosity, hard to disassemble	red	M 56 R 2"	6.000 - 7.000 nt	0,30	15 - 30	25 - 45	10 - 20 (1.450 - 2.900)	60 - 90	12 - 24	-60 to +150 (-76 to +302)	
<b>Retaining cylindrical assemblies</b>													
<b>AN 301-38</b>		Retaining cylindrical assemblies, approved to NSF <sup>3</sup> , 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)	
<b>AN 301-48</b>		Retaining cylindrical assemblies, approved to NSF <sup>3</sup> -/DVGW <sup>4</sup> , medium viscosity, high strength, hard to disassemble	green	M 20 R 3/4"	450 - 650 nt	0,15	25 - 30	40 - 55	25 - 30 (3.625 - 4.350)	2 - 6	2 - 4	-60 to +175 (-76 to +347)	
<b>AN 306-00</b>		Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble	transparent	M 20 R 3/4"	500 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075)	2 - 5	2 - 4	-60 to +175 (-76 to +347)	
<b>AN 306-01</b>		Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble	green	M 12	125 nt	0,10	25 - 30	50 - 60	15 - 18 (2.175 - 2.610)	10 - 20	2 - 4	-60 to +150 (-76 to +302)	
<b>AN 306-03</b>		Retaining cylindrical assemblies, low viscosity, high strength, hard to disassemble	green	M 12	125 nt	0,10	25 - 30	50 - 60	15 - 18 (2.175 - 2.610)	10 - 20	2 - 4	-60 to +150 (-76 to +302)	
<b>AN 306-10</b>		Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc. - fast bonding without activator; medium viscosity, high strength, hard to disassemble	green	M 20 R 3/4"	700 - 1.000 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075)	2 - 5	2 - 4	-60 to +180 (-76 to +356)	
<b>AN 306-20</b>		Retaining cylindrical assemblies, approved by DVGW <sup>4</sup> /to KTW <sup>1</sup> ; high-temperature resistant; higher viscosity, high strength, hard to disassemble	green	M 56 R 2"	3.000 - 6.000 nt	0,20	28 - 36	40 - 55	15 - 25 (2.175 - 3.625)	20 - 40	ca. 24	-60 to +200 (-76 to +392)	
<b>AN 306-30</b>		Retaining cylindrical assemblies, for passive materials such as stainless steel, aluminium, etc. - fast bonding without activator; higher viscosity, high strength, hard to disassemble	green	M 36	3.000 - 6.000 mt	0,20	35 - 45	50 - 70	20 - 30 (2.900 - 4.350)	2 - 5	2 - 4	-60 to +180 (-76 to +356)	
<b>AN 306-38</b>		Retaining cylindrical assemblies under high dynamical stress, fast-curing; 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)	
<b>AN 306-40</b>		Retaining cylindrical assemblies, high-temperature resistant, slow-curing; medium viscosity, high strength, hard to disassemble	green	M 20	600 nt	0,15	20 - 30	30 - 40	15 - 30 (2.175 - 4.350)	ca. 240	ca. 24	-60 to +200 (-76 to +392)	
<b>AN 306-41</b>		Retaining cylindrical assemblies, medium viscosity, medium strength, disassembly with normal tools	yellow	M 20	550 nt	0,12	12 - 15	17 - 22	8 - 12 (1.160 - 1.740)	10 - 20	3 - 6	-60 to +150 (-76 to +302)	
<b>AN 306-48</b>		Retaining cylindrical assemblies, high-temperature resistant; medium viscosity, high strength, hard to disassemble	green	M 20	550 nt	0,15	30 - 35	55 - 70	25 - 35 (3.625 - 5.075)	ca. 5	2 - 4	-60 to +175 (-76 to +347)	
<b>AN 306-50</b>		Retaining cylindrical assemblies, medium viscosity, medium strength, disassembly with normal tools	transparent	M 36 R 1 1/2"	2.500 - 3.000 mt	0,20	35 - 45	55 - 70	25 - 35 (3.625 - 5.075)	2 - 5	2 - 4	-60 to +150 (-76 to +302)	
<b>AN 306-60</b>		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	silver	R 2"	150.000 - 900.000 ht	0,50	35 - 45	10 - 20	25 - 30 (3.625 - 4.350)	15 - 30	3 - 6	-60 to +150 (-76 to +302)	
<b>Flange sealing, gasketing</b>													
<b>AN 301-65</b>		Pipe and flange sealing (with PTFE) approved to NSF <sup>3</sup> -/DVGW <sup>4</sup> ; high viscosity, medium strength, disassembly with normal tools; high-temperature resistant.	white	M 80 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)	
<b>AN 301-72</b>		Pipe and flange sealing (with PTFE) approved to NSF <sup>3</sup> -/DVGW <sup>4</sup> ; high viscosity, medium strength, disassembly with normal tools	white	M 80 R 3"	15.000 - 60.000 ht	0,30	5 - 10	4 - 6	5 - 7 (725 - 1.015)	15 - 30	6 - 12	-60 to +200 (-76 to +392)	
<b>AN 305-10</b>		Gasketing of flanges, gearboxes and motor housings, high-temperature resistant; high viscosity, high strength, hard to disassemble	orange	---	70.000 - 300.000 ht	0,50	18 - 25	15 - 25	5 - 10 (725 - 1.450)	15 - 30	6 - 12	-60 to +200 (-76 to +392)	
<b>AN 305-18</b>		Flange sealing and gasketing, large gap-filling with instant seal; high viscosity, high strength, hard to disassemble	red	---	80.000 - 500.000 ht	0,50	12 - 18	18 - 24	8 - 13 (1.160 - 1.885)	10 - 20	3 - 6	-60 to +200 (-76 to +392)	
<b>AN 305-72</b>		Pipe and flange sealing (with PTFE), instant seal, appr. by DVGW <sup>4</sup> /to KTW <sup>1</sup> ; high viscosity medium strength, disassembly with normal tools	white	M 80 R 3"	17.000 - 50.000 ht	0,40	7 - 10	2 - 4	4 - 6 (580 - 870)	20 - 40	5 - 10	-60 to +150 (-76 to +302)	
<b>AN 305-73</b>		Gasketing of flanges, gearboxes and motor housings, elastic; high viscosity, low strength, easy disassembly	light green	---	17.000 - 50.000 ht	0,30	6 - 10	2 - 5	4 - 6 (580 - 870)	20 - 40	ca. 12	-60 to +150 (-76 to +302)	
<b>AN 305-74</b>		Gasketing of flanges, gearboxes and motor housings, universal type, high-temperature resistant; high viscosity, high strength, hard to disassemble	orange	---	30.000 - 100.000 ht	0,50	16 - 24	5 - 10	5 - 10 (725 - 1.450)	15 - 30	ca. 12	-60 to +180 (-76 to +356)	

### Recommended additional products

**Thread Sealing Cord DF 175**  
For permanent and safe sealing of almost all metal- and plastic threads.

**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.

**Surface Cleaner**  
For cleaning and degreasing of surfaces to be joined or sealed with WEICON adhesives and sealants.

**Sealant and Adhesive Remover**  
Removes residues of cured sealants and adhesives as well as oil, charcoal, lacquers and paints.

**Activator F Spray**  
For activating passive surfaces, like e.g. aluminium, stainless steel, zinc, chrome, etc. as well in case of low ambient temperatures (less than +10°C) and for large gaps.

**Hand Protective Foam**  
Waterproof skin protection, protects against contaminants and irritants from aggressive chemical substances. Dermatologically tested, contains antibacterial agents.

Product	Application	Content	Colour	Odour
Thread Sealing Cord DF 175	For permanent and safe sealing of almost all metal- and plastic threads.	Mastic can 175 ml	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	For activating passive surfaces, like e.g. aluminium, stainless steel, zinc, chrome, etc. as well in case of low ambient temperatures (less than +10°C) and for large gaps.	200 ml 1000 ml	turquoise	solvent
Hand Protective Foam	Waterproof skin protection, protects against contaminants and irritants from aggressive chemical substances. Dermatologically tested, contains antibacterial agents.	200 ml	white	solvent