



NAUE-Aseptic Technology

Aflas – a new sealing material

The designation Aflas means „Tetrafluorethylen-Propylen“ considerably improved, which is chemically and thermally extremely resistant. The resistance to heat is about 230 °C, momentary up to 260 °C.

Aflas is resistant to different media such as acids, corrosive fluids, oils, salt, steam, brake fluids, alcohol, thermal oils etc. ...

The main ranges of application for Aflas are the chemical industry, petrochemistry, automobile industry, aviation and space operations, as well as environmental protection technology.

Table of resistance

Acids	1
Alcaline solutions	1
Animal and vegetable oil	1
Brake fluid	1
Hydraulic fluids (phosphate-ester, water/glycole, MIL-H 5606)	1
Silicone fluids	1 / 2
Water/salt water/steam	1 to about +200 °C
Heat transfer fluids	1
Ozone	1
Alcohol	1 / 2
Amine	1 / 2
Oil and grease (synthetic)	1 / 2
Oxidant	1 / 2
Sour gas (H ₂ S with anticorrosive)	1 / 2
Benzole	2 / 3
Fuel	2 / 3
Diesel	1 / 2
Ketone	3
Chloroform	4
1 = extremely resistant 2 = resistant 3 = sufficiently resistant 4 = non-resistant	



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O-rings

Material

Gaskets	Material Abbreviation	Range of temperature in °C		Special range of application
		Permanent application	Short-term application	
O-ring	NBR Perbunan N Buna N	-40 +120	-54 +135	Mineral oil, fat, air, water-oil-emulsion
O-ring	EPDM Buna AP	-45 +150	-50 +170	Alcohol, hot water, steam,brake fluid, different acids and alcaline solutions
O-ring	VMQ Silicone	-60 +200	-117 +260	Oxygen, ozone, non-ageing, physiologically harmless, sterilizable
O-ring	FKM Viton, Fluorel	-25 +200	-40 +240	Mineral oil, fat, almost inflammable fluids, hydrocarbon, different acids and alcaline solutions, oxygen
O-ring	ETFE Aflas	-20 +230	-20 +260	Mineral oil, synthetic fluids, amine, steam, different acids and alcaline solutions, fuel, alcohol
O-ring	PTFE Teflon, Fluon	-100 +260	-100 +300	Nearly universally resistant, except alcaline metals, elemental fluor and different halogen compounds
FEP-sheathed O-ring	VMQ Silicone	-60 +200		Similar resistance as PTFE
O-ring	FKM Viton, Fluorel	-20 +200		Similar resistance as PTFE



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Part Numbers

O-Ring	EPDM	Silicone	Viton	Aflas	FEP-Silicone sheathed	PTFE	FEP-Viton sheathed	Perbunan
4,00 x 2,00	01-10010	01-20010	01-30010	01-40010	01-50010	01-60010	01-70010	01-80010
4,76 x 1,78	01-10018	01-20018	01-30018	01-40018	01-50018	01-60018	01-70018	01-80018
5,00 x 1,50	01-10028	01-20028	01-30028	01-40028	01-50028	01-60028	01-70028	01-80028
6,00 x 2,00	01-10030	01-20030	01-30030	01-40030	01-50030	01-60030	01-70030	01-80030
6,00 x 2,50	01-10032	01-20032	01-30032	01-40032	01-50032	01-60032	01-70032	01-80032
6,00 x 3,00	01-10034	01-20034	01-30034	01-40034	01-50034	01-60034	01-70034	01-80034
7,25 x 2,50	01-10040	01-20040	01-30040	01-40040	01-50040	01-60040	01-70040	01-80040
8,00 x 2,50	01-10050	01-20050	01-30050	01-40050	01-50050	01-60050	01-70050	01-80050
10,00 x 1,50	01-10070	01-20070	01-30070	01-40070	01-50070	01-60070	01-70070	01-80070
10,00 x 2,50	01-10075	01-20075	01-30075	01-40075	01-50075	01-60075	01-70075	01-80075
10,50 x 2,50	01-10100	01-20100	01-30100	01-40100	01-50100	01-60100	01-70100	01-80100
14,50 x 3,00	01-10118	01-20118	01-30118	01-40118	01-50118	01-60118	01-70118	01-80118
15,00 x 3,00	01-10120	01-20120	01-30120	01-40120	01-50120	01-60120	01-70120	01-80120
15,50 x 3,00	01-10125	01-20125	01-30125	01-40125	01-50125	01-60125	01-70125	01-80125
16,00 x 3,00	01-10130	01-20130	01-30130	01-40130	01-50130	01-60130	01-70130	01-80130
18,00 x 3,00	01-10135	01-20135	01-30135	01-40135	01-50135	01-60135	01-70135	01-80135
18,50 x 3,00	01-10140	01-20140	01-30140	01-40140	01-50140	01-60140	01-70140	01-80140
19,00 x 2,40	01-10145	01-20145	01-30145	01-40145	01-50145	01-60145	01-70145	01-80145
20,00 x 3,00	01-10150	01-20150	01-30150	01-40150	01-50150	01-60150	01-70150	01-80150
22,00 x 3,00	01-10160	01-20160	01-30160	01-40160	01-50160	01-60160	01-70160	01-80160
23,75 x 3,50	01-10195	01-20195	01-30195	01-40195	01-50195	01-60195	01-70195	01-80195
22,50 x 3,00	01-10165	01-20165	01-30165	01-40165	01-50165	01-60165	01-70165	01-80165
24,00 x 3,00	01-10176	01-20176	01-30176	01-40176	01-50176	01-60176	01-70176	01-80176
25,00 x 3,00	01-10180	01-20180	01-30180	01-40180	01-50180	01-60180	01-70180	01-80180
25,50 x 3,00	01-10185	01-20185	01-30185	01-40185	01-50185	01-60185	01-70185	01-80185
26,00 x 3,00	01-10190	01-20190	01-30190	01-40190	01-50190	01-60190	01-70190	01-80190
27,00 x 3,00	01-10194	01-20194	01-30194	01-40194	01-50194	01-60194	01-70194	01-80194
30,00 x 3,00	01-10200	01-20200	01-30200	01-40200	01-50200	01-60200	01-70200	01-80200
31,50 x 3,00	01-10205	01-20205	01-30205	01-40205	01-50205	01-60205	01-70205	01-80205
32,00 x 3,00	01-10210	01-20210	01-30210	01-40210	01-50210	01-60210	01-70210	01-80210
33,00 x 3,00	01-10215	01-20215	01-30215	01-40215	01-50215	01-60215	01-70215	01-80215
36,00 x 3,00	01-10220	01-20220	01-30220	01-40220	01-50220	01-60220	01-70220	01-80220
37,00 x 3,00	01-10230	01-20230	01-30230	01-40230	01-50230	01-60230	01-70230	01-80230
38,00 x 3,00	01-10235	01-20235	01-30235	01-40235	01-50235	01-60235	01-70235	01-80235
39,00 x 3,00	01-10240	01-20240	01-30240	01-40240	01-50240	01-60240	01-70240	01-80240
40,00 x 3,00	01-10250	01-20250	01-30250	01-40250	01-50250	01-60250	01-70250	01-80250
45,00 x 3,00	01-10260	01-20260	01-30260	01-40260	01-50260	01-60260	01-70260	01-80260
48,00 x 3,00	01-10280	01-20280	01-30280	01-40280	01-50280	01-60280	01-70280	01-80280
49,00 x 3,00	01-10297	01-20297	01-30297	01-40297	01-50297	01-60297	01-70297	01-80297
49,50 x 3,00	01-10299	01-20299	01-30299	01-40299	01-50299	01-60299	01-70299	01-80299
50,00 x 3,00	01-10300	01-20300	01-30300	01-40300	01-50300	01-60300	01-70300	01-80300
52,00 x 2,50	01-10305	01-20305	01-30305	01-40305	01-50305	01-60305	01-70305	01-80305
52,00 x 3,00	01-10310	01-20310	01-30310	01-40310	01-50310	01-60310	01-70310	01-80310
55,00 x 3,00	01-10320	01-20320	01-30320	01-40320	01-50320	01-60320	01-70320	01-80320
55,50 x 3,00	01-10321	01-20321	01-30321	01-40321	01-50321	01-60321	01-70321	01-80321



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Part Numbers

O-Ring	EPDM	Silicone	Viton	Aflas	FEP-Silicone sheathed	PTFE	FEP-Viton sheathed	Perbunan
60,00 x 4,00	01-10336	01-20336	01-30336	01-40336	01-50336	01-60336	01-70336	01-80336
61,00 x 4,00	01-10340	01-20340	01-30340	01-40340	01-50340	01-60340	01-70340	01-80340
64,00 x 3,00	01-10350	01-20350	01-30350	01-40350	01-50350	01-60350	01-70350	01-80350
64,00 x 4,00	01-10355	01-20355	01-30355	01-40355	01-50355	01-60355	01-70355	01-80355
66,00 x 4,00	01-10360	01-20360	01-30360	01-40360	01-50360	01-60360	01-70360	01-80360
67,00 x 4,00	01-10365	01-20365	01-30365	01-40365	01-50365	01-60365	01-70365	01-80365
71,00 x 4,00	01-10380	01-20380	01-30380	01-40380	01-50380	01-60380	01-70380	01-80380
72,00 x 4,00	01-10400	01-20400	01-30400	01-40400	01-50400	01-60400	01-70400	01-80400
74,00 x 4,00	01-10410	01-20410	01-30410	01-40410	01-50410	01-60410	01-70410	01-80410
76,00 x 4,00	01-10415	01-20415	01-30415	01-40415	01-50415	01-60415	01-70415	01-80415
81,00 x 3,00	01-10420	01-20420	01-30420	01-40420	01-50420	01-60420	01-70420	01-80420
81,00 x 4,00	01-10430	01-20430	01-30430	01-40430	01-50430	01-60430	01-70430	01-80430
82,00 x 3,00	01-10435	01-20435	01-30435	01-40435	01-50435	01-60435	01-70435	01-80435
82,00 x 4,00	01-10437	01-20437	01-30437	01-40437	01-50437	01-60437	01-70437	01-80437
84,00 x 4,00	01-10440	01-20440	01-30440	01-40440	01-50440	01-60440	01-70440	01-80440
85,00 x 4,00	01-10450	01-20450	01-30450	01-40450	01-50450	01-60450	01-70450	01-80450
88,50 x 3,50	01-10455	01-20455	01-30455	01-40455	01-50455	01-60455	01-70455	01-80455
90,00 x 4,00	01-10460	01-20460	01-30460	01-40460	01-50460	01-60460	01-70460	01-80460
100,0 x 3,00	01-10480	01-20480	01-30480	01-40480	01-50480	01-60480	01-70480	01-80480
100,0 x 4,00	01-10500	01-20500	01-30500	01-40500	01-50500	01-60500	01-70500	01-80500
100,0 x 5,00	01-10510	01-20510	01-30510	01-40510	01-50510	01-60510	01-70510	01-80510
105,0 x 4,00	01-10515	01-20515	01-30515	01-40515	01-50515	01-60515	01-70515	01-80515
110,0 x 4,00	01-10520	01-20520	01-30520	01-40520	01-50520	01-60520	01-70520	01-80520
110,0 x 5,00	01-10530	01-20530	01-30530	01-40530	01-50530	01-60530	01-70530	01-80530
135,0 x 6,00	01-10550	01-20550	01-30550	01-40550	01-50550	01-60550	01-70550	01-80550
150,0 x 3,00	01-10555	01-20555	01-30555	01-40555	01-50555	01-60555	01-70555	01-80555
150,0 x 4,00	01-10600	01-20600	01-30600	01-40600	01-50600	01-60600	01-70600	01-80600
150,0 x 5,00	01-10610	01-20610	01-30610	01-40610	01-50610	01-60610	01-70610	01-80610
152,0 x 3,00	01-10612	01-20612	01-30612	01-40612	01-50612	01-60612	01-70612	01-80612
160,0 x 5,00	01-10620	01-20620	01-30620	01-40620	01-50620	01-60620	01-70620	01-80620
163,0 x 4,00	01-10630	01-20630	01-30630	01-40630	01-50630	01-60630	01-70630	01-80630
163,0 x 6,00	01-10640	01-20640	01-30640	01-40640	01-50640	01-60640	01-70640	01-80640
180,0 x 5,30	01-10650	01-20650	01-30650	01-40650	01-50650	01-60650	01-70650	01-80650
185,0 x 6,00	01-10680	01-20680	01-30680	01-40680	01-50680	01-60680	01-70680	01-80680
200,0 x 4,00	01-10695	01-20695	01-30695	01-40695	01-50695	01-60695	01-70695	01-80695
200,0 x 6,00	01-10700	01-20700	01-30700	01-40700	01-50700	01-60700	01-70700	01-80700
200,0 x 8,00	01-10705	01-20705	01-30705	01-40705	01-50705	01-60705	01-70705	01-80705
215,6 x 6,00	01-10710	01-20710	01-30710	01-40710	01-50710	01-60710	01-70710	01-80710
230,0 x 8,00	01-10720	01-20720	01-30720	01-40720	01-50720	01-60720	01-70720	01-80720
240,0 x 4,00	01-10725	01-20725	01-30725	01-40725	01-50725	01-60725	01-70725	01-80725
250,0 x 8,00	01-10730	01-20730	01-30730	01-40730	01-50730	01-60730	01-70730	01-80730
268,0 x 8,00	01-10740	01-20740	01-30740	01-40740	01-50740	01-60740	01-70740	01-80740
270,0 x 8,00	01-10742	01-20742	01-30742	01-40742	01-50742	01-60742	01-70742	01-80742
290,0 x 4,00	01-10750	01-20750	01-30750	01-40750	01-50750	01-60750	01-70750	01-80750
300,0 x 4,00	01-10760	01-20760	01-30760	01-40760	01-50760	01-60760	01-70760	01-80760

Dimensions/part numbers are subject to change without notice