

CORROSION RESISTANCE OF COUPLING MATERIAL

Metal	Non-Metal	Gasket/Seal Material
1 – Excellent 2 – Good 3 – Fair X – Not Recommended	A – Acceptable X – Not Recommended	T – Teflon V – Viton E – EPDM N – Neoprene B – Buna N

NOTE:

1. Ratings given are based at 21°C. Chemical compatibility varies greatly with temperature. For applications at temperatures other than 21°C, contact Advanced Industrial Products for recommendations.
2. Chemical resistance of a material does not necessarily indicate the suitability of a fitting in a given application due to variables such as clamping, coupling, hose construction, gasket material, etc.

AGENT	Aluminium	Brass	Bronze	Malleable Iron Carbon Steel	Monel	Stainless Steel, 304	Stainless Steel, 316	Nylon	Polypropylene	Gaskets
Acetate Solvents (Crude)	1	X	X	2	2	1	1	A	X	T
Acetate Solvents (Pure)	1	1	1	X	1	1	1	A	X	T
Acetic Acid (80%)	3	X	X	X	1	1	1	X	X	TEVNB
Acetic Acid (50%)	2	X	X	X	2	2	1	X	X	TEVNB
Acetic Acid (20%)	2	X	X	X	2	2	1	X	X	TEVNB
Acetic Acid (10%)	2	X	2	X	2	1	1	X	X	TEVNB
Acetic Anhydride	2	X	2	2	2	2	2	X	X	TNB
Acetone	1	2	2	2	1	1	1	A	X	TE
Acetylene	1	X	X	2	2	1	1	X	X	TEVNB
Alcohol - Amyl	2	2	2	2	1	2	2	A	A	TEVNB
Alcohol - Benzyl	2	2	2	2	1	1	1	X	A	TVB
Alcohol - Butyl	1	2	1	2	1	1	1	A	A	TEVN
Alcohol - Diacetone	1	1	2	2	1	2	2	X	A	TE
Alcohol - Ethyl	1	2	2	2	2	2	2	X	A	TEVNB
Alcohol - Hexyl	-	-	-	-	-	-	-	A	-	-
Alcohol - Isobutyl	-	-	-	-	-	-	-	A	-	-
Alcohol - Isopropyl	2	2	2	2	2	2	2	A	A	TEVNB
Alcohol - Methyl (Methanol)	2	2	2	2	2	2	2	A	A	TENB
Alcohol - Octyl	-	-	-	-	-	-	-	A	-	-
Alcohol - Propyl	2	2	2	2	2	1	1	X	A	TEVNB
Aluminium Chloride (Aq.)	X	X	X	X	X	X	X	A	A	TEVNB
Aluminium Fluoride (Sat.)	2	-	-	X	2	X	2	X	A	TEVNB
Aluminium Nitrate (Sat.)	3	X	-	X	-	2	2	A	A	TEVNB
Aluminium Potassium Sulfate (Alum)	2	2	2	X	2	X	2	X	A	TEVNB
Aluminium Sulfate (Sat.)	X	X	2	X	2	-	2	A	A	TEVNB
Ammonia Anhydrous	1	X	X	1	1	2	1	A	X	TENB
Ammonia Gas	X	X	X	1	X	1	1	A	X	TENB
Ammonia Nitrate	-	-	-	-	-	-	-	X	-	-
Ammonium Bifluoride	-	X	-	X	2	-	-	X	A	TEVB
Ammonium Carbonate (Sat.)	2	X	X	2	2	2	2	A	A	TEVNB
Ammonium Casenate	-	-	-	-	-	-	-	A	-	-
Ammonium Chloride (Sat.)	X	X	2	X	2	X	X	A	A	TEVNB
Ammonium Hydroxide (Sat.)	2	X	X	1	X	2	2	A	A	TEVNB
Ammonium Nitrate	2	X	X	X	X	-	-	A	A	TENB
Ammonium Phosphate (10-40%)	X	X	X	X	2	1	2	A	A	TEVNB
Ammonium Sulfate (10-40%)	X	X	3	X	2	X	2	A	A	TEVNB
Aniline	-	X	2	X	2	1	1	X	X	TV
Arsenic Acid	X	X	2	X	X	2	2	X	A	TEVNB
Asphalt	-	-	-	2	-	-	2	X	X	TV

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