

ТЕХНИЧЕСКА ИНФОРМАЦИЯ

ТАБЛИЦА ЗА ХИМИЧЕСКА УСТОЙЧИВОСТ НА МАТЕРИАЛИТЕ НА НАКРАЙНЦИТЕ

Таблицата на химическата устойчивост е ръководство за първоначален избор на фитинг и съединителен материал, подходящ за дадени работни условия. Характеристиките, дадени в таблицата, се отнасят за устойчивост при +20°C.

Символ	Материал	Характеристики
AL	aluminium	лек, ограничена устойчивост на корозия, неподходящ за киселини и високо налягане
MS	brass	тежък, ограничена устойчивост на корозия, неподходящ за киселини
BR	bronze	тежък, ограничена устойчивост на корозия, неподходящ за киселини
ST	carbon steel	висока якост на опън, не е скъп, ограничена устойчивост на корозия
MON	monel	висока устойчивост на корозия, много скъп, подходящ за алкални съединения
304	AISI 304 steel	устойчив на корозия, топлоустойчив, лесно заваряем, подходящ за хранителни продукти
316L	AISI 316L steel	повишена устойчивост на корозия в химическа среда, топлоустойчив, лесно заваряем, подходящ за хранителни продукти
PP	polypropylene	лек, за ниско налягане, устойчивост на корозия, подходящ за киселини, не се препоръчва за хранителни продукти

A - Отлична устойчивост

B - Умерена и периодична устойчивост

C - Ограничена устойчивост

X - Не е устойчив

- - Няма данни

SUBSTANCE	AL	MS	BR	ST	MON	304	316L	PP
Acetic acid 10% ÷ 50%	B	X	X	X	B	A	A	A
Acetic acid 80%	B	X	X	X	A	A	A	A
Acetic anhydride	A	X	B	B	B	A	A	A
Acetone	A	B	B	B	A	A	A	A
Acetylene	A	X	X	B	B	A	A	X
Aluminium chloride (solution)	X	X	X	X	X	X	X	A
Aluminium fluoride	C	X	X	X	A	X	C	X
Aluminium nitrate (saturated)	C	X	A	X	A	B	B	A
Aluminium potassium sulphate (alum)	X	X	X	X	A	X	A	A
Aluminium sulphate	X	X	C	X	B	A	A	A
Ammonium bifluoride	X	X	X	X	B	X	X	-
Ammonium carbonate	X	B	-	C	A	A	A	-
Ammonium caseinate	A	A	A	A	A	A	A	-
Ammonium chloride (dry)	X	X	B	X	B	B	B	A
Ammonium hydroxide	X	X	A	A	A	A	A	A
Ammonium nitrate	B	X	X	X	X	A	A	A
Ammonium perchlorate	X	-	-	X	A	A	A	X
Ammonium phosphate 10 ÷ 40%	X	X	X	X	B	A	A	A
Ammonium sulphate	X	X	C	X	A	X	A	A
Anhydrous ammonia	-	X	X	A	X	A	A	A
Aniline (aminobenzene)	A	X	B	X	B	A	A	A
Aqua ammonia - ammonia water	A	X	X	A	X	A	A	A
Arsenic acid	X	X	X	X	A	A	A	A
Asphalt	A	A	A	B	A	A	A	X
Barium carbonate	X	A	B	B	A	B	B	A
Barium chloride (saturated)	X	B	B	A	B	B	A	A

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SUBSTANCE	AL	MS	BR	ST	MON	304	316L	PP
Iron III chloride	X	X	X	X	X	X	X	A
Iron nitrate 10 ÷ 50%	X	X	X	X	X	B	B	A
Isobutyl acetate	A	B	A	A	A	A	A	X
Isobutyl alcohol (isobutanol)	A	A	A	A	A	A	A	-
Isopropyl acetate	A	A	A	A	A	A	A	X
Isopropyl alcohol (isopropanol)	B	B	B	B	B	A	A	A
Isopropyl ether	A	B	B	A	A	A	A	-
Jet fuel Jet A1	A	A	A	A	A	A	A	X
Ketones	B	B	B	B	B	B	B	-
Lactic acid 25%	X	B	B	X	A	A	A	A
Lactic acid 80%	X	B	X	X	A	A	A	A
Lead (II) acetate	X	X	X	X	B	A	A	A
Lead (II) chloride	X	X	X	X	X	X	X	B
Lead sulphate	X	B	B	X	B	B	A	-
Lime sulphur	X	X	X	X	B	B	B	A
Linolic acid	B	X	C	X	A	A	A	A
Liquid bromine	X	X	X	X	X	X	X	X
Magnesium carbonate	B	-	-	C	A	A	A	A
Magnesium chloride	X	X	B	X	A	B	A	A
Magnesium hydroxide	X	B	A	A	A	A	A	A
Magnesium nitrate	B	B	B	B	B	B	B	A
Magnesium oxide	A	A	A	A	A	A	A	-
Magnesium sulphate	B	A	B	C	A	A	A	A
Maleic acid	A	X	C	X	A	A	A	-
Mercury	X	X	X	B	A	A	A	A
Mercury (II) chloride	X	X	X	X	X	X	X	A
Mercury (II) cyanide	X	X	X	X	B	B	B	-
Methane	A	A	A	A	A	A	A	B
Methyl alcohol (methanol)	B	B	B	B	B	A	A	A
Methyl bromide	X	A	A	B	A	B	A	-
Methyl ethyl ketone (MEK)	A	A	A	B	A	A	A	A
Methyl isobutyl ketone	A	A	A	B	A	A	A	-
Methyl methacrylate	A	-	B	A	A	A	A	-
Methylene chloride	A	B	B	B	A	A	A	X
Milk	A	X	X	X	X	A	A	A
Mine water	X	X	X	X	B	A	A	A
Mineral grease	A	A	A	A	A	A	A	-
Mineral oil	A	A	A	A	A	A	A	A
Monosodium phosphate	X	C	-	B	A	A	A	A
Naphtha	A	A	B	B	B	A	A	-
Naphtha	A	A	A	A	A	A	A	X
Naphthalene	A	A	A	A	A	A	A	X
Nickel sulphate	X	C	C	X	A	A	A	A
Nitric acid 30%	X	X	X	X	X	A	A	A
Nitric acid 65%	X	X	X	X	X	A	A	X
Nitric acid 99%	A	X	X	X	X	B	B	X
Nitrobenzene	A	X	X	A	A	A	A	X

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SUBSTANCE	AL	MS	BR	ST	MON	304	316L	PP
Nitrogen	A	A	A	A	A	A	A	A
Octyl alcohol (octanol)	A	A	A	A	A	A	A	-
Oleic acid	B	C	B	B	A	A	A	A
Oxalic acid <10%	B	C	B	X	A	A	A	A
Oxygen	X	A	A	X	A	A	A	A
Palmitic acid (saturated)	B	C	B	C	A	A	A	A
Paraffin	A	A	A	A	A	A	A	A
Pentanol (amyl alcohol)	B	A	A	B	A	A	A	A
Phenol	A	C	X	B	A	A	A	X
Phosphoric acid <50%	X	X	X	X	A	A	A	A
Phosphoric acid <85%	X	X	X	X	C	A	A	A
Photographic solutions	A	A	A	X	A	A	A	A
Picric acid	X	X	X	X	X	B	B	X
Potassium acetate	X	-	-	B	A	A	A	A
Potassium bicarbonate	X	B	B	B	A	A	A	A
Potassium carbonate	X	C	C	B	A	A	A	A
Potassium chlorate 8%	B	X	X	B	A	A	A	-
Potassium chloride 30%	X	X	B	X	A	A	A	A
Potassium chromate 30%	B	A	A	B	A	B	B	-
Potassium cyanide 30%	X	X	X	B	B	B	A	A
Potassium dichromate 30%	A	B	B	B	B	A	A	A
Potassium hydroxide <50%	X	X	X	X	A	A	A	A
Potassium nitrate 80%	A	B	B	B	B	B	B	A
Potassium permanganate	B	B	B	X	B	A	A	-
Potassium sulphate	B	B	B	B	A	A	A	A
Propane	AA	A	A	A	A	A	A	X
Propyl alcohol (propanol)	B	B	B	B	B	A	A	-
Propylene glycol	A	A	A	A	A	A	A	A
Propylene oxide	C	X	X	B	X	A	A	-
Pyridine	A	A	A	A	A	A	A	-
Pyrogallol C ₆ H ₃ (OH) ₃	B	B	B	B	B	B	A	-
Refined oil	A	A	A	A	A	A	A	X
Seawater	X	X	B	X	B	B	B	A
Silicone oil	A	A	A	A	A	A	A	A
Silver nitrate	X	X	X	X	X	B	A	A
Soap solutions	B	B	B	B	B	A	A	A
Sodium acetate	X	-	-	B	A	A	A	A
Sodium bicarbonate	X	B	B	B	A	A	A	A
Sodium bisulphite	X	X	C	X	B	X	B	A
Sodium bisulphite	X	X	C	X	B	B	A	A
Sodium borate	B	B	B	C	B	B	B	A
Sodium carbonate	X	C	C	B	A	A	A	A
Sodium chlorate 50%	X	B	B	X	A	A	A	-
Sodium chloride 30%	X	B	B	X	A	B	A	A
Sodium cyanide	X	X	X	B	X	A	A	A
Sodium dichromate 10%	B	X	X	B	A	B	B	A
Sodium hydroxide <50%	X	X	X	X	A	A	A	A

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SUBSTANCE	AL	MS	BR	ST	MON	304	316L	PP
Sodium hydroxide, dry, 100%	X	X	X	X	A	A	A	A
Sodium hypochlorite <20%	X	X	X	X	X	X	X	A
Sodium metaphosphate	X	X	B	X	A	A	A	A
Sodium nitrate 40%	A	B	A	B	B	A	A	A
Sodium perborate 10%	A	-	X	X	X	X	A	A
Sodium peroxide	X	X	X	X	B	A	A	A
Sodium silicate (water glass)	X	C	C	B	A	A	A	-
Sodium sulphate	B	B	B	B	A	A	A	A
Sodium sulphide	X	X	X	X	A	B	A	A
Sodium thiosulphate	A	X	X	X	B	A	A	A
Steam	A	A	A	A	A	A	A	X
Stearic acid	B	C	B	C	C	A	A	A
Styrene	A	A	A	A	A	A	A	X
Sulphur chloride (monochloride)	X	X	X	X	X	X	X	-
Sulphur dioxide (dry)	B	C	C	B	X	A	A	-
Sulphur trioxide	B	X	X	B	B	A	A	A
Sulphuric acid <20%	X	X	X	X	X	X	A	A
Sulphuric acid >96%	X	X	X	B	X	A	A	C
Sulphuric acid 21% ÷ 95%	X	X	X	X	X	X	X	B
Sulphurous acid 20%	X	X	X	X	X	X	B	A
Tannic acid - tannin	X	A	X	X	B	B	B	A
Tartaric acid	A	A	B	B	A	A	A	A
Tetrachloroethylene	A	B	C	C	A	A	A	X
Tetrahydrofuran	X	-	-	A	B	A	A	-
Tin (II) chloride 15%	X	X	X	X	-	X	X	A
Tin (IV) chloride	X	X	X	X	X	X	X	A
Titanium tetrachloride (dry)	X	X	X	B	B	A	A	A
Toluene (methylbenzene)	A	A	A	A	A	A	A	X
Trichloroethylene, dry	A	A	A	B	A	A	A	X
Triethanolamine	B	-	-	B	A	A	A	A
Triethylamine	A	-	-	A	A	A	A	-
Trisodium phosphate	X	C	A	B	A	A	A	A
Turpentine	B	X	B	C	A	A	A	
Urea	A	A	B	B	A	A	A	A
Vegetable oil	A	B	A	B	A	A	A	A
Vinegar (acetic acid <10%)	B	X	X	X	B	A	A	A
Xylene	A	A	A	A	A	A	A	X
Zinc chloride	X	X	X	X	A	X	X	A
Zinc nitrate	A	A	A	A	A	B	B	A
Zinc sulphate	X	B	B	X	B	A	A	-