

## 14. CHEMICAL COMPATIBILITY OF EUROTUBI PRESSFITTING SYSTEMS

**Note.** The compatibility values stated are generic. Liquids for food use other than water can not be included since pressfitting systems are not suitable for these elements as stagnation may form in correspondence with the joints. For more information please contact the Eurotubi Technical Department.

FLUID	PIPE AND SEALS				
	AISI 316L	C-STEEL	EPDM	HNBR	FKM-FPM
Acetone 100 %	A	A	A	D	D
Acetylene	A	A	A	A	A
Ammonia dry	A	A	A	A	D
Ammonium chloride 1%	A	D	A	A	A
Ammonium nitrate 10÷50%	A	D	A	A	A
Ammonium phosphate 10%	C	X	A	A	A
Ammonium sulfate 10%	C	C	A	A	D
Aniline	A	A	B	D	C
Aqua regia, aqua fortis	A	D	C	D	B
Battery acid	A	D	B	X	A
Benzene	A	A	D	D	A
Boric acid 5%	A	D	A	A	A
Butane	A	A	D	A	A
Butanol	A	A	A	A	A
Calcium Hydroxide ≤ 10°C	C	B	A	A	A
Calcium Hypochlorite	D	D	A	C	A
Carbon dioxide	A	C	B	A	A
Caustic soda ≤ 50%	A	D	A	B	C
Chlorine (dry)	B	B	A	B	A
Citric acid 5%	A	D	A	A	A
Compressed air *	A	B	D	A	A
Copper chloride	D	D	A	A	A
Copper nitrate	A	D	A	A	A
Copper sulfate 10%	A	D	A	A	A
Engine oil	A	B	D	A	A
Ethane	A	A	D	A	A
Ethylene glycol	A	B	A	A	A
Ethylene Oxide	A	X	C	D	D
Ferric chloride, watery	D	D	A	A	A
Ferric sulfate	C	D	A	A	A
Formaldehyde	A	D	A	B	A
Gas oil	A	X	D	A	A
Gasoline	A	A	D	B	A
Gear oil	A	B	D	A	A
Hexane	A	A	D	A	A
Hydrochloric acid 37%	D	D	C	D	A
Hydrogen peroxide 10%	A	D	C	D	B
Kerosene	A	B	D	A	A
Linseed oil	A	A	A	A	A
Lubricating oils	A	A	D	A	A

FLUID	PIPE AND SEALS				
	AISI 316L	C-STEEL	EPDM	HNBR	FKM-FPM
Machine oil	A	B	D	A	A
Magnesium chloride ≤20%	A	B	A	A	A
Magnesium hydroxide 100°C	C	B	A	B	A
Magnesium sulfate <40%	A	B	A	A	A
Methane	A	A	D	A	A
Methanol	A	B	A	B	D
Mineral oil	A	A	D	A	A
Naphtha	A	A	D	B	A
Naphthalene	A	A	D	D	A
Nickel chloride 10÷30%	C	D	A	A	A
Nickel sulfate	A	D	A	A	A
Nitric acid ≤20%	A	D	A	D	B
Paraffin	A	B	D	A	A
Phosphoric acid, concentrated	A	D	A	D	A
Potassium chloride	A	D	A	A	A
Potassium hydroxide ≤ 50°C	C	D	A	B	D
Potassium sulfate 10%	A	B	A	A	A
Propane (liquefied)	A	A	D	A	A
Propylene glykol	A	B	A	C	A
Sea water	B	D	A	A	A
Sodium bicarbonate	A	C	A	A	A
Sodium hypochlorite < 20% ≤ 25°C	A	D	A	B	A
Sodium nitrate ≤ 40%	A	C	A	B	A
Sodium phosphate	C	D	A	A	A
Sodium sulfate 10%	A	B	A	A	A
Sulfuric acid 10% 60°C	D	D	B	C	A
Sulfuric acid, smoking	D	D	D	X	B
Sulfuric acid 100%, moist	C	D	C	X	B
Sulphur dioxide (dry)	C	B	A	D	B
Tannin	A	D	A	A	A
Tartaric Acid 10% 100°C	A	D	B	A	A
Toluol 20°C	A	C	D	D	B
Trichloroethylene	C	B	D	D	A
Turpentine	C	B	D	A	B
Water ≤ 100°C	A	C	A	A	A
Water, deionised	A	X	A	B	A
Water, distilled	A	X	A	B	A
Zinc chloride	A	X	A	A	A
Zinc sulfate 10%	A	X	A	A	A

A: Excellent - Material not affected  
 B: Good – Material slightly affected but suitable  
 C: Fair – Some degree of reaction but suitable

D: Severe effect – Not recommended  
 X: No useful data

(\*) Application suitable only under the technical conditions seen in point 17.19.