



Tabella delle resistenze chimiche dei materiali*

	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Acetic acid, diluite, 10%	B	C	C	C	A	C	A	A	B	B	A	A	A	A	A	B	AB
Acetic acid glacial	C	X	X	X	B	C	B	A	C	X	A	A	A	A	A		
Acetic acid anhydride	C	C	B	B	B	A	I	B	I	X	A	A	A	A	A	AB	A
Acetone	B	C	B	X	A	B	A	A	X	X	A	A	A	A	A	A	A
Acetylene	A	A	B	A	A	B	A	A	C	A	A	A	A	A	A	A	A
Air 68°F (20°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Air 150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A		
Aluminium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	B/X
Aluminium fluoride 150°F (65°C)	A	A	A	A	A	A	A	A	B	I	A	A	A	A	A	X	C/X
Aluminium sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	A
Alums 150°F (65°C)	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A	B	AB
Ammonia gas, anhydrous	A	A	A	A	A	A	A	A	I	X	A	A	A	A	A	A	A
Ammonia 10%water solution	B	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonia 30%water solution	B	B	B	A	A	B	A	A	C	A	A	A	A	A	A	A	A
Ammonium chloride	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	AB	AB
Ammonium hydroxide	C	B	B	B	A	A	A	A	C	B	A	A	A	A	A	A	A
Ammonium nitrate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate monobasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate dibasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium phosphate tribasic	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ammonium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Amyl acetate	B	X	X	X	B	X	A	B	X	X	A	A	A	A	A	A	A
Amyl alcohol	A	A	A	A	A	A	A	A	X	A	A	A	A	A	A	A	A
Aniline, Aniline oil	X	X	C	X	A	X	C	B	X	A	A	A	A	A	A	A	A
Aniline, dyes	B	B	B	X	A	B	C	A	X	B	A	A	A	A	A	A	A
Asphalt	X	X	B	B	X	B	X	X	I	A	A	A	A	A	A	A	A

Legenda
 A = Resistenza Buona;
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Resistenza chimica dei materiali



DIFLON SERVICE

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	NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Barium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	A
Barium hydroxide 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	A
Barium sulfide 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	AB
Beer	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Beet sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Benzene, Benzol	X	X	X	X	X	X	X	X	X	A	A	A	A	A	A	A	A
Benzene, petroleum ether	I	I	I	I	I	I	I	I	X	A	I	B	A	A	A	A	A
Benzene, petroleum naphtha	X	X	C	A	X	B	X	X	X	A	A	B	A	A	A	A	A
Black sulfate liquor	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A	A	AB
Blast furnace gas	C	C	A	C	C	C	C	C	A	A	A	A	A	A	A		
Borax	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Boric acid	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Bromine	X	X	X	X	X	C	X	X	X	A	X	X	A	A	A	NR	NR
Butane	X	X	A	A	X	A	X	X	X	A	A	A	A	A	A	A	A
Butyl acetate	X	X	X	X	B	X	B	B	X	X	A	A	A	A	A	B	A
Butyl alcohol, Butanol	A	A	A	A	A	A	A	A	C	A	A	A	A	A	A	A	A
Calcium bisulfate	C	C	A	A	B	A	B	A	C	A	A	A	A	A	A	B	A
Calcium chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	B
Calcium hydroxide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	AB
Calcium hypochlorite	X	X	X	X	A	B	A	A	C	A	A	A	A	A	A	X	AB
Caliche liquors	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A	A
Cane sugar liquors	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbolic acid, phenol	C	C	C	C	C	C	A	A	X	A	A	A	A	A	A	A	A
Carbon dioxide, dry-wet	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Carbon disulfide	X	X	X	X	X	X	X	X	X	A	C	C	A	A	A	A	B
Carbon monoxide 140°F (60°C)	C	C	C	C	C	B	C	A	A	A	A	A	A	A	A	A	A

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Resistenza chimica dei materiali

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Carbon tetrachloride	X	X	X	C	X	X	X	X	X	A	A	C	A	A	A	A	A
Castor oil	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Cellosolve acetate	B	B	X	X	A	I	A	A	X	X	A	A	A	A	A	A	A
CFC-12	X	X	A	A	B	I	B	C	I	C	I	I	A	A	A		
China wood oil, tung oil	X	X	B	A	A	B	A	C	X	A	A	A	A	A	A	A	A
Chlorine, dry/wet	X	X	X	X	X	C	X	X	X	B	C	X	A	A	A	A	AB
Chlorinated solvents	X	X	X	X	X	X	X	X	X	A	A	B	A	A	A	AB	AC
Chloroacetic acid	X	C	C	C	X	A	I	A	I	X	A	A	A	A	A	AB	A
Chlorosulfonic acid	X	X	C	C	X	X	X	X	X	X	C	X	A	A	A	B	B
Chromic acid	X	X	X	X	C	A	I	I	C	A	A	C	A	A	A	C	BC
Citric acid	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	AB
Coke oven gas	X	X	X	X	X	A	I	I	B	A	A	X	A	A	A	A	A
Copper chloride 150°F (65°C)	C	A	B	A	A	B	A	A	A	A	A	A	A	A	A	X	X
Copper sulfate 150°F (65°C)	C	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
Corn oil	X	C	B	A	A	B	C	C	A	A	A	A	A	A	A	A	A
Cottonseed oil	X	C	B	A	A	B	C	C	A	A	A	A	A	A	A	A	A
Creosote, coal tar	X	X	B	A	X	B	X	X	C	A	A	A	A	A	A	A	A
Creosote, coal tar wood	X	X	B	A	X	I	X	X	X	A	A	A	A	A	A	A	AB
Creosols, cresylic acid	C	X	X	C	C	B	X	X	I	A	A	B	A	A	A	A	A
Dichlorobenzene	X	X	X	X	X	X	X	X	X	A	X	C	A	A	A	A	A
Dichloroethylene	X	X	X	X	X	X	X	X	X	A	C	X	A	A	A	A	A
Diesel fuel	X	X	C	A	X	B	X	X	X	A	B	B	A	A	A	A	A
Diethanolamine 20%	C	X	I	I	A	X	A	A	X	X	A	A	A	A	A	A	A
Diethylamine	B	B	B	C	B	C	B	B	B	X	A	A	A	A	A	A	A
Diisopropylamine	B	I	I	B	I	C	I	I	I	I	A	A	A	A	A	A	A
Diethylphthalate	X	X	X	X	B	X	B	A	X	A	A	A	A	A	A	A	A

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Ethers	X	X	X	X	X	X	C	B	X	X	A	B	A	A	A	A	A
Ethyl acetate	X	X	X	X	B	X	B	A	B	X	A	A	A	A	A	A	A
Ethyl alcohol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Ethyl cellulose	B	B	B	B	B	I	B	B	C	X	A	A	A	A	A	A	AB
Ethyl chloride	X	X	X	X	B	X	C	C	C	A	A	C	A	A	A	A	A
Ethyl glycol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A		
Ferric chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	X
Ferric sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	AB	A
Formaldehyde	B	B	B	C	A	A	A	A	B	X	A	A	A	A	A		
Formic acid	A	A	C	B	A	A	A	A	C	X	A	A	A	A	A	B	B
Fuel oil	X	X	A	A	X	B	X	X	X	A	A	A	A	A	A	A	A
Furfural	X	C	C	X	A	B	C	B	X	X	A	I	A	A	A	X	A
Gasoline, unleaded	X	X	X	A	X	C	X	X	X	A	A	B	A	A	A	A	A
Gasoline + MTBE	X	X	X	A	X	C	X	X	X	A	A	B	A	A	A	A	A
Gasoline Hi Test + MTBE	X	X	X	A	X	C	X	X	X	A	A	B	A	A	A	A	A
Gelatin	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glucose	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Glue	B	B	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A
Glycerine, glycerol	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Green sulfate liquor	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
HFC-134A	B	X	A	A	A	B	A	A	I	X	A	I	A	A	A		
Hydraulic fluids: Petroleum	X	X	B	A	X	B	X	X	C	A	I	A	A	A	A	A	A
Hydraulic fluids: Phosphate ester alkyl	X	X	C	X	A	X	A	A	X	I	I	I	A	A	A	A	A
Hydraulic fluids: Phosphate ester aryl	X	X	X	X	C	X	C	C	X	I	I	I	A	A	A		
Hydraulic fluids: Phosphate ester blends	X	X	X	X	X	X	C	C	X	A	I	I	A	A	A		

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Hydraulic fluids: Water glycol	A	A	A	A	A	A	A	A	A	A	I	A	A	A	A	A	A
Hydrobromic acid	C	X	C	C	A	A	A	A	X	A	I	A	A	A	A	X	X
Hydrochloric acid	B	B	B	C	B	B	B	A	X	A	A	A	A	A	A	X	X
Hydrocyanic acid	B	B	C	B	C	A	C	B	B	A	A	A	A	A	A	AB	A
Hydrofluoric acid	X	X	X	X	C	A	B	B	X	X	A	B	A	A	A	B	AB
Hydrofluosilicic acid	A	B	B	B	A	I	A	A	I	A	I	A	A	A	A	X	AB
Hydrogen gas 140°F (60°C)	B	A	A	A	A	I	A	A	C	A	A	A	A	A	A	A	A
Hydrogen peroxide	X	X	C	C	C	C	C	B	A	A	I	C	A	A	A	AB	A
Hydrogen sulfide, dry	C	C	B	C	A	A	A	A	X	X	A	A	A	A	A	AC	A
Hydrogen sulfide, wet	C	C	B	C	A	A	A	A	X	X	A	A	A	A	A	A	A
Isobutyl alcohol	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Isopropyl alcohol	A	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A
Isooctane	X	X	B	A	X	A	X	X	X	A	A	A	A	A	A	A	A
Kerosene	X	X	B	A	X	C	X	X	X	A	A	A	A	A	A	A	A
Lacquers	X	X	X	X	C	X	X	X	X	X	A	B	A	A	A	A	A
Lacquers solvents	X	X	X	X	C	X	X	X	X	X	A	B	A	A	A	A	A
Lactic acid	C	C	C	C	C	A	C	B	A	A	A	A	A	A	A	B	A
Linseed oil	C	C	B	A	A	A	A	B	A	A	A	A	A	A	A	A	A
Lubricating oil, crude	X	X	B	A	X	B	X	X	C	A	A	A	A	A	A	A	A
Lubricating oil, refined	X	X	B	A	X	B	X	X	C	A	A	A	A	A	A	A	A
Magnesium chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	X	A
Magnesium hydroxide 150°F (65°C)	A	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Magnesium sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Mercuric chloride	B	B	C	B	A	A	A	A	A	A	A	A	A	A	A	X	X
Mercury	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Methyl alcohol, methanol	A	A	A	A	A	A	A	A	A	B	A	A	A	A	A	A	A

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Methyl chloride	X	X	X	X	C	X	X	C	X	B	C	C	A	A	A	A	A
Methyl ethyl ketone	X	X	X	X	B	X	A	A	X	X	A	A	A	A	A	A	A
Methyl isopropyl ketone	X	X	X	X	B	X	C	C	C	X	A	A	A	A	A	A	A
Milk	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
MTBE	I	I	I	I	I	I	I	I	I	X	A	I	I	I	I		
Mineral oils	X	X	B	A	X	B	X	X	A	A	A	A	A	A	A	A	A
Natural gas	C	C	A	A	X	A	X	X	C	A	A	A	A	A	A	A	A
Nickel chloride 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	B	B
Nickel sulfate 150°F (65°C)	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Nitric acid, crude	X	X	X	X	X	C	X	X	X	B	X	I	A	A	A	A	A
Nitric acid, diluted 10%	X	X	B	X	B	A	C	A	C	A	A	A	A	A	A	X	X
Nitric acid, concentrated 70%	X	X	X	X	C	C	X	C	X	B	C	X	A	A	A		
Nitrobenzene	X	X	X	X	X	X	X	X	C	B	A	A	A	A	A	A	A
Oleic acid	X	X	C	C	B	B	B	C	X	B	A	A	A	A	A	A	A
Oleum	X	C	C	C	X	B	X	C	I	A	X	X	A	A	A		
Oxalic acid	B	C	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Oxygen	B	C	A	C	A		A	A	X	B	A	A	A	A	A	A	A
Palmitic acid	X	B	A	A	B	B	B	B	X	A	A	A	A	A	A	AB	A
Perchlorethylene	X	X	X	C	X	X	X	X	C	A	C	C	A	A	A	A	A
Petroleum oils and crude 200°F (95°C)	X	X	B	A	X	C	X	X	X	B	C	X	A	A	A	A	A
Phosphoric acid, crude	C	C	C	C	C	A	B	A	C	A	A	A	A	A	A	X	X
Phosphoric acid, pure 45%	C	C	C	C	C	A	B	A	C	A	A	A	A	A	A	A	A
Picric acid, molten	C	C	C	C	C	I	I	I	X	A	C	X	A	A	A	A	A
Picric acid, water solution	A	C	B	B	A	A	I	I	I	A	A	A	A	A	A	X	X
Potassium chlorite	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Potassium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	AB	AB

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Sodium cyanide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium hydroxide to 50% at 140°F	B	B	B	B	A	B	A	A	A	A	A	A	A	A	A	A	A
Sodium hypochlorite	X	X	C	C	A	B	A	A	B	A	A	C	A	A	A	NR	NR
Sodium metaphosphate	A	A	C	A	A	B	A	A	A	A	A	A	A	A	A	A	A
Sodium nitrate	B	B	B	B	A	A	A	A	X	A	A	A	A	A	A	A	A
Sodium perborate	B	B	B	B	A	A	A	A	B	A	A	A	A	A	A	A	A
Sodium peroxide	B	B	B	B	A	A	A	A	C	A	A	C	A	A	A	A	A
Sodium phosphate, monobasic	A	B	B	B	A	A	A	A	X	A	A	A	A	A	A	A	A
Sodium phosphate, dibasic	A	B	B	B	A	A	A	A	X	A	A	A	A	A	A	A	A
Sodium phosphate, tribasic	A	B	B	B	A	A	A	A	X	A	A	A	A	A	A	AB	A
Sodium silicate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfate	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Sodium sulfide	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NR	AB
Sodium thiosulfate, "hypo"	A	A	A	A	A	A	A	A	I	A	A	A	A	A	A	A	A
Soybean oil	X	C	B	A	A	A	A	C	A	A	A	A	A	A	A	A	A
Stannic chloride	A	A	A	A	B	A	B	A	B	A	A	A	A	A	A	X	X
Steam 450°F (230°C)	X	X	X	X	B	X	B	B	I	X	X	X	A	A	A	A	A
Stearic acid	X	X	C	B	B	C	B	A	A	A	A	A	A	A	A	A	AB
Sulfur	X	X	A	X	A	A	A	A	B	A	A	A	A	A	A	A	A
Sulfur chloride	X	X	C	C	X	A	X	X	C	A	A	I	A	A	A	B	B
Sulfur dioxide, dry (GAS)	C	C	C	C	A	C	B	B	B	A	A	A	A	A	A	A	A
Sulfur trioxide, dry	X	C	C	C	B	C	B	B	A	X	X	A	A	A	A	AB	B
Sulfuric acid, 10%	C	C	B	C	A	A	A	A	X	A	A	A	A	A	A	A	A
Sulfuric acid, 11% - 75%	X	X	X	X	B	A	C	A	X	A	A	A	A	A	A	A	A

Legenda
 A = Resistenza Buona;
 B = Resistenza Abbastanza Buona;
 C = Resistenza Mediocre;
 X = Non Adatta;
 I = Informazioni Insufficienti.

Resistenza chimica dei materiali



DIFLON SERVICE

Tabella delle resistenze chimiche dei materiali*

		NATURAL RUBBER NR	SBR SBR	CHLOROPRENE CH	NITRILE NBR	BUTYL IIR	hypalon® CSM	EPDM EPDM	EPR EPM	silicone VMQ	viton® FKM	CROSS-LINKED POLYETHYLENE XLPE	ULTRA HIGH MOLECULAR WEIGHT POLYETHYLENE UHMWPE	politetrafluorotilene PTFE	DIFLEX®	perfluorocoxi PFA	Acciaio Inox 304 304SS	Acciaio Inox 316L 316LSS
Sulfurous acid	C	C	C	C	C	A	C	B	X	B	A	A	A	A	A	A	AC	B
Tannic acid	A	C	A	C	A	A	A	A	B	A	A	A	A	A	A	A	AB	A
Tar	X	X	C	C	X	C	X	X	B	A	X	I	A	A	A	A	A	A
Tartaric acid	A	C	C	C	B	A	B	B	A	A	A	A	A	A	A	A	A	A
Toluene, Toluol	X	X	X	X	X	X	X	X	X	A	C	C	A	A	A	A	A	A
Trichloroethylene	X	X	X	X	X	X	X	X	X	A	C	B	A	A	A	A	A	A
Turpentine	X	X	X	B	X	X	X	X	X	A	A	B	A	A	A	A	A	A
Urea, water solution	A	I	A	A	A	A	A	A	A	I	A	A	A	A	A	A	A	A
Vinegar	C	C	C	C	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Vinyl acetate	X	X	X	X	A	X	B	A	X	X	I	A	A	A	A	A	A	A
Water, acid mine	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Water, fresh	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Water, distilled	A	A	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Whiskey and wines	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A
Xylene, xylol	X	X	X	X	X	X	X	X	X	A	C	C	A	A	A	A	A	A
Zinc chloride	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	NR	AB
Zinc sulfate	B	B	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A	A

Legenda
 A = Resistenza Buona;
 B = Resistenza Abbastanza Buona;
 C = Resistenza Mediocre;
 X = Non Adatta;
 I = Informazioni Insufficienti.

NOTA 1

*Le tabelle sono basate su test di laboratorio e su dati resi pubblici, e si ritiene siano accurate. Comunque devono essere utilizzate esclusivamente come guida indicativa in quanto non prendono in considerazione tutte le variabili che si incontrano nell'uso del prodotto, come ad esempio temperatura, concentrazione, pressione, durata dell'esposizione al fluido, stabilita' e possibili contaminazioni del fluido stesso.

Tutte le applicazioni devono essere sempre verificate; la parte a contatto utilizzata deve essere sempre testata con il prodotto chimico che deve convogliare.

Nota Bene: tutti i dati sono basati su test condotti a 20 °C (70 °F) se non diversamente specificato.