

RESISTENZA AGLI AGENTI CHIMICI

Medium	Concentration	HDPE	LDPE	PA	PC	PP	PS	PVC rigid	PVC- plasticised	SAN
Acetaldehyde		3/3	2/4	2/0	4/4	3/4	4/4	4/4	0/0	4/4
Acetamide	saturated	1/1	1/1	1/0	4/4	1/1	1/1	4/4	0/0	1/1
Acetic acid	50%	1/1	1/1	4/4	1/2	1/1	2/2	1/2	0/0	0/0
Acetone		1/1	3/3	1/0	4/4	1/3	4/4	4/4	0/0	4/4
Acetonitrile		1/1	1/1	1/0	4/4	3/4	4/4	4/4	0/0	0/0
Acetophenone		0/0	1/0	1/0	(4)	1/3	0/4	4/4	4/4	0/4
Acetylene	100%	1/0	1/0	1/0	1/0	1/0	0/0	2/0	4/4	3/0
Acrylonitrile		1/1	1/3	1/0	4/4	3/4	4/4	4/4	4/4	0/0
Adipic acid	saturated	1/1	1/2	0/0	1/1	1/1	1/1	1/3	1/3	0/0
Allyl alcohol	96%	1/3	3/3	3/0	3/3	2/2	2/4	2/3	4/4	4/4
Aluminium chloride	10%	1/1	1/2	1/0	1/0	1/1	1/1	1/1	0/0	1/1
Aluminium oxide	solid	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1	1/1
Amino acids		1/1	1/1	1/1	1/1	1/1	1/1	1/1	0/0	0/0
Ammonia	25%	1/1	1/1	4/4	4/4	1/1	2/3	1/2	1/3	2/2
Ammonium chloride	aqueous	1/1	1/1	1/0	1/0	1/1	1/1	1/3	1/0	1/1
Ammonium hydroxide	5 %	1/1	1/1	1/0	3/4	1/1	1/3	1/1	0/0	0/0
Ammonium oxylate		1/1	1/2	(1)	1/1	1/2	1/1	1/1	0/0	0/0
Ammonium phosphate	any	1/1	1/1	1/0	(2)	1/1	1/1	1/1	1/0	0/0
Ammonium sulphide	any	1/1	1/1	1/0	4/4	1/1	0/0	1/3	1/0	0/0
Amyl acetate		1/2	2/3	2/0	4/4	3/4	4/4	4/4	4/4	4/4
Amyl alcohol		1/1	1/2	1/0	1/0	1/1	1/3	2/3	3/0	0/4
Aniline		1/2	1/3	3/4	4/4	2/3	4/4	4/4	4/4	0/4
Antifreeze (automotive)		1/1	1/1	3/3	(1)	1/1	1/1	0/0	0/0	0/0

Barium chloride	saturated	1/1	1/1	1/0	1/0	1/1	1/1	1/3	1/0	1/1
Benzaldehyde		1/3	3/3	3/0	4/4	1/4	4/4	4/4	4/4	0/4
Benzene		3/4	3/4	2/0	4/4	3/4	4/4	4/4	0/0	0/4
Benzoic acid	saturated	1/1	1/1	3/4	4/4	1/3	2/2	1/2	1/0	1/1
Benzyl alcohol		3/4	4/4	4/4	4/4	4/4	4/4	2/3	0/0	4/4
Boric acid	10%	1/1	1/1	1/0	1/1	1/1	1/2	1/3	1/0	1/1
Brake fluid		1/0	1/0	1/0	4/4	1/1	3/0	1/0	3/0	4/4
Bromine		4/4	4/4	4/4	4/4	4/4	4/4	2/4	4/4	4/4
Bromobenzene		3/4	4/4	1/0	4/4	4/4	4/4	4/4	0/0	0/0
Butadiene		3/4	4/4	1/0	4/4	4/4	4/4	3/4	0/0	0/0
Butanol	techn. pure	1/1	1/3	1/0	1/0	1/2	1/0	1/3	4/4	0/0
Butyl acetate		1/2	2/3	1/0	4/4	3/4	4/4	4/4	4/4	4/4
Butyric acid		3/4	4/4	3/3	4/4	4/4	4/4	2/4	4/4	4/4

Calcium chloride	aqueous	1/1	1/1	1/0	1/0	1/1	1/1	1/3	1/0	1/1
Calcium hydroxide	conc.	1/1	1/1	1/0	4/4	1/1	2/2	1/1	1/0	0/0
Calcium hypochlorite	saturated	1/1	1/1	1/4	3/4	1/1	2/3	2/3	3/0	1/1
Calcium sulphate	saturated	1/1	1/1	1/1	1/0	1/1	1/0	1/3	1/0	0/0
Carbazole		1/1	1/1	(2)	4/4	1/1	1/1	4/4	0/0	4/4
Carbon bisulphide		4/4	4/4	3/0	4/4	4/4	4/4	4/4	4/4	4/4
Carbon dioxide		1/1	0/0	0/0	0/0	1/1	0/0	1/1	0/0	1/1
Carbon tetrachloride		3/4	4/4	1/0	4/4	4/4	4/4	2/3	4/4	4/4
Caustic potash (potassium hydroxide)	50%	1/1	1/1	1/0	4/4	1/1	1/1	1/1	1/0	0/0
Caustic soda	30%	1/1	1/1	1/0	4/4	1/1	1/0	1/3	1/3	0/0
Cellosolve acetate		1/1	1/2	0/0	3/4	1/2	4/4	3/4	0/0	0/0
Chlorine	10 % in H2O	3/4	3/4	4/4	2/3	4/4	4/4	1/2	0/0	4/4
Chlorine water		3/0	0/4	4/4	4/4	3/4	4/4	3/3	3/0	3/3
Chlorobenzene		3/4	3/4	4/4	4/4	3/4	4/4	4/4	0/0	0/4
Chloroform		3/4	4/4	3/3	4/4	2/3	4/4	4/4	4/4	4/4
Chromic acid	10%	1/1	1/1	4/4	2/3	1/1	1/1	1/2	0/0	0/3
Citric acid	10%	1/1	1/1	1/1	1/2	1/1	1/2	2/2	1/0	0/0
Cresol		3/4	4/4	4/4	4/4	2/3	4/4	4/4	4/4	3/4
Cyclohexane		3/4	3/4	1/0	3/3	3/4	4/4	2/3	1/0	1/3

Decahydronaphthalene (decalin)		1/2	2/4	1/0	4/4	2/4	4/4	1/2	3/0	3/4
Diamide hydrate	aqueous	1/1	1/0	4/4	(4)	1/1	0/0	1/0	0/0	0/0
Dibutyl phthalate		1/3	3/3	1/0	4/4	2/2	4/4	4/4	4/4	0/4
Dichlorobenzene	o-	3/3	3/4	(1)	4/4	3/4	4/4	4/4	4/4	4/4
Diethylbenzene		3/4	4/4	(1)	3/4	4/4	4/4	4/4	0/0	0/0
Diethylether		3/4	4/4	1/0	4/4	4/4	4/4	3/4	0/0	4/4
Dimethylformamide		1/1	1/3	1/0	4/4	1/1	4/4	3/4	0/0	4/4
Dioxin 1,4		2/2	2/3	1/0	4/4	3/3	4/4	3/4	4/4	4/4

Ethanol	50%	1/1	1/1	1/0	1/0	1/1	1/0	1/0	3/0	0/0
Ether		3/4	4/4	1/1	4/4	4/4	4/4	3/4	4/4	4/4
Ethyl acetate		1/3	3/4	1/0	4/4	1/3	4/4	4/4	4/4	0/4
Ethyl acrylate	100%	4/4	4/4	1/0	(4)	4/4	0/0	4/4	4/4	0/0
Ethyl alcohol	96%	1/1	1/3	1/0	1/3	1/1	3/4	1/3	3/0	1/3
Ethyl benzene		2/3	3/4	(2)	4/4	3/4	4/4	4/4	4/4	4/4
Ethyl chloride		3/3	3/4	1/0	4/4	3/4	4/4	4/4	4/4	4/4
Ethyl ether	tech. pure.	3/0	2/3	1/0	4/4	4/4	4/4	4/4	4/4	0/0
Ethylencyanacetat		1/1	1/1	0/0	3/4	1/1	2/4	3/4	0/0	0/0
Ethylene glycol		1/1	1/1	1/0	2/3	1/1	1/1	1/1	3/3	1/1
Ethylene oxide		2/3	3/3	3/0	3/4	3/3	4/4	3/4	0/0	0/0

Fluoride		1/1	1/1	(2)	1/1	1/1	2/2	1/1	0/0	0/0
Fluorine		4/4	4/4	1/4	4/4	4/4	4/4	1/2	0/0	4/4
Formaldehyde	40%	1/2	2/3	1/3	1/2	1/2	4/4	2/3	3/3	0/4
Formic acid	98-100%	1/1	1/2	4/4	3/4	1/3	3/4	3/4	1/3	3/4

Glacial acetic acid		0/0	0/0	4/4	4/4	1/3	0/0	0/0	0/0	0/0
Glucose	any	1/1	1/1	1/1	1/1	1/1	1/1	1/3	1/3	0/0
Glycerine	any	1/1	1/1	1/0	3/3	1/1	1/1	1/1	2/3	1/1

Heating oil		3/3	3/4	1/0	3/3	1/3	3/4	1/1	3/3	1/1
Heptane, n-		2/3	3/4	1/0	1/2	2/4	4/4	2/3	4/4	1/0
Hexane		2/3	4/4	1/0	(2)	2/3	4/4	2/4	4/4	1/1

Medium	Concentration	HDPE	LDPE	PA	PC	PP	PS	PVC rigid	PVC- plasticised	SAN
Hydrobromic acid	50%	1/1	1/2	4/4	4/4	1/2	4/4	1/1	3/3	0/0
Hydrochloric acid	20%	1/1	1/1	4/4	2/3	1/1	1/1	1/3	0/0	0/3
Hydrocyanic acid	aqueous	1/1	1/1	(3)	4/4	1/1	1/0	1/0	1/0	0/0
Hydrofluoric acid	50%	1/1	1/1	4/4	4/4	1/1	4/4	2/3	2/0	3/3

Inorganic salts dissolved		1/1	1/1	0/0	1/1	1/1	2/2	1/1	0/0	0/0
Iodine (I) - tincture		1/3	1/3	4/4	3/4	1/2	3/3	4/4	4/4	3/3
Isopropanol (isopropyl alcohol)	techn. pure	1/1	1/1	1/0	1/2	1/1	2/2	1/2	4/4	1/4
Isopropyl acetate		1/2	2/3	1/0	4/4	2/3	4/4	4/4	4/4	0/0

Kerosene		2/2	3/4	(1)	4/4	3/3	4/4	1/1	0/0	0/0
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Lactic acid	85%	1/1	1/1	3/4	1/2	1/2	2/2	2/3	2/3	1/1
Lanolin	techn. pure	1/3	1/3	1/0	1/0	1/3	1/1	3/3	3/3	1/1
Lead acetate	aqueous	1/1	1/1	3/0	1/0	1/1	1/1	1/1	1/0	1/1
Lubricating oil		1/3	2/3	(2-3)	(1)	3/0	0/0	1/1	1/3	0/0

Machine oil	100%	0/0	1/4	(1)	(2)	1/3	0/0	0/0	0/0	0/0
Menthol	100%	1/3	3/4	3/0	3/4	1/3	4/4	0/0	0/0	0/0
Mercuric chloride		1/1	1/1	4/4	1/0	1/1	1/3	1/3	1/0	1/1
Mercury	pure	1/1	1/1	1/0	1/1	1/1	1/1	1/1	3/0	1/1
Methanol (methyl alcohol)		1/1	1/1	2/0	4/4	1/1	3/4	1/3	3/3	3/4
Methoxyethyl oleate		1/1	1/2	(2)	3/4	1/2	4/4	4/4	0/0	0/0
Methyl acetate	100%	1/0	1/1	1/0	(4)	1/3	4/4	4/4	4/4	4/4
Methyl ethyl ketone		1/3	3/4	1/0	4/4	1/3	4/4	4/4	4/4	4/4
Methylene chloride		4/4	4/4	3/4	4/4	3/4	4/4	4/4	4/4	4/4
Mineral oil		1/1	2/4	(1)	1/2	1/3	1/1	1/2	0/0	0/0
Monochloroacetic acid		1/1	1/1	4/4	3/4	1/2	2/4	3/4	4/4	0/0

Nitric acid	50%	2/4	3/4	4/4	4/4	3/4	4/4	2/3	0/0	0/3
Nitrobenzene		3/4	4/4	4/4	4/4	2/4	4/4	4/4	4/4	4/4
Nitrohydrochloric acid		4/4	4/4	4/4	4/4	4/4	4/4	4/4	4/4	3/4

Octane, -n		1/1	1/1	1/0	2/3	1/1	4/4	3/4	3/3	1/1
Oils and fats, vegetable		1/3	1/3	(2)	(2)	1/3	3/0	1/1	3/3	0/0
Oxalic acid		1/1	1/1	3/4	1/0	1/1	1/1	1/1	1/1	1/1

Perchlorethylene		4/4	4/4	4/4	4/4	4/4	4/4	4/4	0/0	1/1
Perchloric acid		2/4	2/4	4/4	4/4	2/4	2/3	2/4	3/0	0/0
Petroleum	techn. pure	1/3	3/4	1/0	3/0	1/3	4/4	1/0	3/0	3/4
Petroleum spirit		2/3	3/4	1/0	3/3	3/4	4/4	2/4	0/0	0/4
Phenol	100%	2/3	3/3	4/4	4/4	1/2	4/4	4/4	3/0	4/4
Phenylhydrazine	techn. pure	3/0	0/0	(3)	(3)	3/4	0/0	4/4	0/0	0/0
Phosphoric acid	85%	1/1	1/1	4/4	1/2	1/2	1/2	1/2	1/1	1/2
Photo developer		1/3	1/1	4/4	(2)	1/2	0/0	1/3	1/0	0/0
Photo fixing bath		1/0	1/1	1/0	(2)	1/1	0/0	1/3	1/0	0/0
Plasticiser		1/3	1/3	(2)	(3)	1/3	0/0	0/0	0/0	3/3
Potassium perchlorate	saturated	1/1	1/1	(1)	1/0	1/1	0/0	1/3	3/0	0/0
Potassium permanganate		1/3	1/1	4/4	1/0	1/1	1/3	1/3	0/0	1/3
Propane	gaseous	3/4	4/4	1/0	3/4	2/4	4/4	1/2	0/0	0/0
Propylene glycol		1/1	1/1	4/4	2/3	1/1	1/1	3/4	0/0	1/1
Propylene oxide		1/1	1/2	(3)	2/3	1/2	4/4	3/4	0/0	4/4
Pyridine		1/3	0/2	1/0	4/4	3/3	4/4	4/4	4/4	4/4