

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
ACETALDEHYDE	73	-	-	-	-	-	+	0	+	0	+
ACETAMIDE	73	-	-	+	+	+	+	0	+	+	+
ACETIC ACID, GLACIAL	158	-	-	0	0	-	+	0	-	-	+
ACETIC ACID 10 %	122	-	0	-	-	+	+	+	-	-(0)	+
ACETIC ACID 50 %	122	-	-	-	-	-	+	0	-	-	+
ACETIC ANHYDRIDE	73	-	-	-	-	-	+	0	-	0	+
ACETONE (DIMETHYLKETONE)	73	-	-	-	-	-	+	0	+	+	+
ACETOPHENONE	73	-	-	-	-	-	+	0	+	+	+
ACETYLCHLORIDE	73	-	-	-	-	+	-	-	-	-	+
ACETYLENE	73	+	+	+	+	+	+	-	+	+	+
ACETYLENE TETRACHLORIDE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
ACRYLONITRILE	73	-	-	-	-	-	-	-	+	+	+
ADIPIIC ACID, AQ. SOL.	73	0	+	+	+	+	+	0	n.a.	0	+
AEROSHELL FLUID 4 (SHELL)	176	+	+	+	+	+	-	-	+	+	+
AEROSHELL 7A	122	+	+	+	+	+	-	0	+	+	+
AEROSHELL 17	122	+	+	+	+	+	-	0	+	+	+
AEROSHELL 750	122	-	n.a.	0	0	+	n.a.	-	+	+	+
AIR, HOT [°C] (LIMITING VALUE)	⇒	230	230	176	266	392	266	392	212	212	500
AIR, HOT (LONG TIME TEST)	212	+	+	-	+	+	+	+	-	0	+
AIR, HOT (LONG TIME TEST)	392	-	-	-	-	+	-	+	-	-	+
AIR (LONG TIME WEATHERING TEST)	n.a.	+	+	0	+	+	+	+	(+)	+	+
ALCOHOL (DRINKING-ALCOHOL ~40 VOL.%)	73	-	0(+)	+	+	+	+	+	+	+	+
ALUMINIUM ACETATE, AQ. SOL.	122	-	n.a.	+	+	0	+	-	+	+	+
ALUMINIUM CHLORIDE, AQ. SOL.	122	0	+	+	+	+	+	0	+	+	+
ALUMINIUM FLUORIDE, AQ. SOL.	122	-	0(+)	+	+	+	+	0	+	+	+
ALUMINIUM NITRATE, AQ. SOL.	122	-	0(+)	+	+	+	+	0	+	+	+
ALUMINIUM PHOSPHATE, AQ. SOL.	122	-	0(+)	+	+	+	+	+	+	0	+
AMMONIA GAS, COLD	73	0	+	+	+	-	+	+	n.a.	n.a.	+
AMMONIA GAS, HOT	176	-	-	0	0	-	0	+	n.a.	n.a.	+
AMMONIA SOLUTION 25%	73	-	0(+)	0	0	0	+	+	+	0	+
AMMONIUM CARBONATE, AQ. SOL.	122	-	0(+)	+	+	+	+	0	+	0	+
AMMONIUM CHLORIDE, AQ. SOL.	122	-	0(+)	+	+	+	+	0	+	0	+
AMMONIUM HYDROXIDE 25%	73	-	0(+)	+	+	+	+	+	+	0	+
AMMONIUM PERSULFATE, AQ. SOL.	122	-	-	+	+	+	+	-	+	0	+
AMMONIUM SULFIDE, AQ. SOL.	73	0	+	+	+	-	+	(+)	+	0	+
AMYL ACETATE	73	-	-	-	-	-	+	-	+	+	+
AMYL ALCOHOL (N-AMYL ALCOHOL)	122	-	(0)	+	+	+	+	-	+	+	+
AMYL CHLORIDE	104	-	0	-	-	+	-	-	-	+	+
AMYL CHLORONAPHTHALENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
ANILINE	73	-	-	-	-	+	+	+	0	0	+
ANILINE	212	-	-	-	-	-	+	n.a.	0	0	+
ANILINE HYDROCHLORIDE	73	-	-	-	-	+	+	-	n.a.	n.a.	+
AQUA REGIA	73	-	-	-	-	+	0	-	-	-	+
ARAL VITAM GX 32	176	+	+	+	+	+	-	-	+	+	+
ARAL VITAMOL 3865	176	+	+	+	+	+	-	-	+	+	+
ARAL VITAMOL 4004	176	+	+	+	+	+	-	-	+	+	+
ARGON	73	+	+	+	+	+	+	0	+	+	+
ARSENIC ACID, AQ. SOL.	122	-	0	+	+	+	+	+	+	0	+
ASPHALT / BITUMEN	212	0	+	0	0	+	-	-	+	+	+
ASTM-REFERENCE FUEL A	73	+	+	+	+	+	-	-	+	+	+
ASTM-REFERENCE FUEL B	73	0	0	0	-	+	-	-	+	+	+
ASTM-REFERENCE FUEL C	73	0	0	-	-	+	-	-	+	+	+

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ASTM-REFERENCE FUEL D	73	+	+	-	-	+	-	-	+	+	+
ASTM-REFERENCE NO. 1 OIL	212	+	+	+	+	+	-	+	+	+	+
ASTM-REFERENCE NO. 2 OIL	212	0	+	+	+	+	-	0	+	+	+
ASTM-REFERENCE NO. 3 OIL	212	0	+	+	+	+	-	-	+	+	+
AVIATION FUEL	73	+	+	+	+	+	-	-	+	+	+
<b>B</b> ARIUM CHLORIDE, AQ. SOL.	122	-	+	+	+	+	+	+	+	0	+
BARIUM HYDROXIDE, AQ. SOL.	122	-	n.a.	+	+	+	+	+	+	0	+
BEER	73	-	+	+	+	+	+	+	+	+	+
BEER WORT	194	-	n.a.	+	+	+	0	0	n.a.	n.a.	+
BENZALDEHYDE	73	-	-	-	-	-	+	0	+	0	+
BENZALDEHYDE	212	-	-	-	-	-	+	-	-	-	+
BENZENE	73	-	-	-	-	+	-	-	+	+	+
BENZENE SULFONIC ACID	73	-	-	-	-	+	-	-	n.a.	n.a.	+
BENZOIC ACID, AQ. SOL.	73	-	-	-	-	+	0	-	0	0	+
BENZOPHENONE	104	-	-	0	0	+	0	-	n.a.	n.a.	+
BENZYL ALCOHOL	73	-	-	-	-	+	0	0	+	-(0)	+
BENZYL CHLORIDE	73	-	-	-	-	+	-	-	+	+	+
BIOMIL H (HUNGARY)	176	-	+	-	-	+	-	-	+	+	+
BISULFITE WASTE LIQUOR	73	-	n.a.	0	0	+	+	(+)	+	0	+
BLAST-FURNACE GAS	73	-	-	-	-	+	-	+	+	+	+
BLEACH LIQUOR	73	-	n.a.	-	-	+	+	0	-	-(0)	+
BONE OIL	73	(+)	+	+	(+)	+	-	0	+	+	+
BORAX, AQ. SOL.	122	-	(0)	+	+	+	+	0	+	0	+
BORIC ACID 10%	73	0	+	+	+	+	+	0	+	0	+
BP BIOHYD 46	176	-	+	-	-	+	-	-	+	+	+
BP BIOHYD SE 46	176	-	+	-	-	+	-	-	+	+	+
BP ENERGOL SF-C 15	122	-	0(+)	+	+	0	+	0	+	0	+
BP ENERGOL SF-C 15	140	-	-(0)	+	+	0	+	0	+	0	+
BRAKE FLUID (BASED ON GLYCOL, DOT-4)	122	-	-	-	-	-	+	0	-	-	+
BRAKE FLUID (BASED ON GLYCOL, DOT-4)	212	-	-	-	-	-	+	0	-	-	+
BRENNTAG TR 32	122	-	0	+	+	+	-	+	+	+	+
BRENNTAG TR 32	140	-	-	+	+	+	-	+	+	+	+
BRENNTAG TR 46	122	-	+	+	+	+	-	+	+	+	+
BRENNTAG TR 46	140	-	0	+	+	+	-	+	+	+	+
BROMINE, LIQUID	73	-	-	-	-	+	-	-	-	-	+
BROMINE PENTAFLUORIDE	73	-	-	-	-	-	-	-	n.a.	n.a.	+
BROMINE TRIFLUORIDE	73	-	-	-	-	-	-	-	n.a.	n.a.	+
BROMINE WATER	73	-	-	-	-	+	-	-	-	-	+
BUNKER OIL	158	0	+	+	+	+	-	-	+	+	+
BUTADIEN (MONOMER)	n.a.	-	-	-	-	+	-	-	+	+	+
BUTANE	73	+	+	+	+	+	-	-	+	+	+
BUTANOL	73	-	n.a.	+	+	+	+	0	+	+	+
BUTANOL	122	-	n.a.	+	+	+	+	-	+	+	+
BUTANOL TERT.	122	-	-	0	0	+	0	0	+	+	+
BUTTER	73	0	+	+	+	+	-	+	+	+	+
BUTTER FAT(WITHOUT WATER)	73	0	+	+	+	+	-	+	+	+	+
BUTYL ACETATE	73	-	-	-	-	-	0	-	+	+	+
BUTYL ACETYL RICINOLEATE	73	-	n.a.	0	0	+	+	-	n.a.	n.a.	+
BUTYL ACRYLATE	73	-	-	-	-	-	-	+	n.a.	n.a.	+
BUTYL AMINE	73	-	-	0	0	-	0	0	n.a.	n.a.	+

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BUTYLENE	73	(+)	(+)	+	+	+	-	-	+	+	+
BUTYRALDEHYDE	73	-	-	-	-	-	0	-	n.a.	n.a.	+
<b>C</b> ALCIUM ACETATE, AQ. SOL.	122	-	n.a.	+	+	-	+	-	+	0	+
CALCIUM CHLORIDE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
CALCIUM HYDROXIDE, AQ. SOL.	73	-	+	+	+	+	+	-	+	0	+
CALCIUM HYPOCHLORITE 15%	73	-	(0)	-	-	+	+	0	+	0	+
CALCIUM PHOSPHATE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
CAMPHOR OIL	73	0	+	+	+	+	-	-	+	+	+
CARBOLIC ACID	73	-	-	-	-	+	-	-	n.a.	n.a.	+
CARBON DIOXIDE, DRY	73	+	+	+	+	+	0	0	+	+	+
CARBON DIOXIDE, WET	73	0	+	+	+	+	0	0	n.a.	n.a.	+
CARBON DISULFIDE	73	-	-	-	-	+	-	-	+	+	+
CARBONIC ACID	73	+	+	+	+	+	+	+	+	+	+
CARBON MONOXIDE, DRY	73	+	+	+	+	+	+	+	+	+	+
CASTOR OIL	176	+	+	+	(+)	+	0	+	+	+	+
CASTROL ALPHA SP 68	176	+	+	+	+	+	-	0	+	+	+
CASTROL BIOTEC ALPIN 22	176	0	+	-	-	+	-	-	+	+	+
CASTROL BIOTEC HVX	176	0	+	-	-	+	-	-	+	+	+
CASTROL HYPIN AWS 32	176	+	+	+	+	+	-	-	+	+	+
CETANE	73	-	n.a.	+	+	+	-	-	n.a.	n.a.	+
CHLORACETIC ACID	73	-	-	-	-	-	+	-	-	-	+
CHLORBUTADIENE	n.a.	-	-	-	-	+	-	-	n.a.	n.a.	+
CHLORINE DIOXIDE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
CHLORINE, DRY GAS	73	-	-	-	-	0	-	-	-	-	+
CHLORINE, WET GAS	73	-	-	-	-	0	-	-	-	-	+
CHLORINE WATER	73	-	-	-	-	-	0	-	-	-	+
CHLOROACETONE	73	-	-	-	-	-	+	-	n.a.	n.a.	+
CHLOROENZOL	122	-	-	-	-	+	-	-	+	+	+
CHLOROFORM	73	-	-	-	-	+	-	-	-	-(0)	+
CHLORONAPHTHALENE	73	-	-	(-)	(-)	+	-	-	n.a.	n.a.	+
CHLORONITROETHANE	73	-	-	-	-	-	-	-	n.a.	n.a.	+
CHLOROPHENOL (O-CHLOROPHENOL)	73	-	-	-	-	+	-	-	n.a.	n.a.	+
CHLOROSULFONIC ACID 10%	73	-	-	-	-	-	0	-	n.a.	n.a.	+
CHLOROTOLUENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
CHROME PLATING SOLUTIONS	73	-	-	-	-	+	-	0	-	-(0)	+
CHROMIC ACID, AQ. SOL.	73	0	n.a.	-	-	+	0	0	-(0)	-(0)	+
CHROMIUM-POTASSIUM ALUM, AQ. SOL.	122	-	n.a.	+	+	+	+	+	n.a.	n.a.	+
CICO H 3000	176	-	+	-	0	+	-	-	+	+	+
CITRIC ACID, AQ. SOL.(SATURATED)	73	0	+	+	+	+	+	+	+	0	+
COAL GAS	73	(-)	0	-	-	+	+	n.a.	n.a.	n.a.	+
COBALT CHLORIDE, AQ. SOL.	73	-	n.a.	+	+	+	+	0	+	0	+
COCA-COLA®	bp.	n.a.	n.a.	0	0	(-)	+	+	n.a.	n.a.	+
COCONUT FATTY ACID	176	0	(+)	+	+	+	-	+	+	+	+
COCONUT OIL	176	0	+	+	+	+	0	+	+	+	+
COD-LIVER OIL	73	+	+	0	0	+	+	0	+	+	+
COFFEE	122	-	+	+	+	+	+	+	+	0	+
COPPER ACETATE, AQ. SOL.	122	-	-	0	0	-	+	-	+	0	+
COPPER CHLORIDE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
COPPER SULFATE, AQ. SOL.	122	-	0(+)	+	+	+	+	+	+	+	+
COTTAGE CHEESE 60%	122	(0)	(+)	+	+	+	+	+	n.a.	n.a.	+

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COTTONSEED OIL	158	+	+	+	+	+	0	0	+	+	+
CREAM 30%	122	n.a.	+	+	+	+	+	+	+	(+)	+
CREOSOLS	73	-	-	-	-	+	-	-	n.a.	n.a.	+
CREOSOTE-WOOD TAR	73	0	n.a.	+	+	+	-	-	n.a.	n.a.	+
CRESOL (O-CRESOL)	158	-	-	-	-	+	-	-	n.a.	-	+
CRUDE OIL	122	+	+	+	+	+	-	-	+	+	+
CRUDE OIL - AROMATIC BASE	176	0	+	+	+	+	-	-	+	+	+
CRUDE OIL - PARAFFIN BASE	176	0	+	+	+	+	-	-	+	+	+
CUMENE	n.a.	-	-	-	-	+	-	-	n.a.	n.a.	+
CYCLOHEXANE	73	+	+	+	+	+	-	-	+	+	+
CYCLOHEXANOL	73	-	-	+	+	+	-	-	+	+	+
CYCLOHEXANONE	73	-	-	-	-	-	0	-	+	+	+
<b>DEKALIN</b>	73	(0)	n.a.	-	-	+	-	-	+	+	+
DEXTRIN, AQ. SOL.	73	+	+	+	+	+	+	+	+	+	+
DIBENZYL ETHER	73	0	n.a.	-	-	-	0	0	n.a.	n.a.	+
DIBENZYL SEBACATE	73	0	n.a.	-	-	0	0	-	n.a.	n.a.	+
DIBUTYLAMINE	73	-	-	-	-	-	(0)	-	n.a.	n.a.	+
DIBUTYL ETHER	73	0	n.a.	-	-	-	0	-	n.a.	n.a.	+
DIBUTYL PHTHALATE	73	-	n.a.	-	-	0	+	0	+	+	+
DIBUTYL SEBACATE	73	-	n.a.	-	-	+	+	0	+	n.a.	+
DICHLOROBENZENE	73	-	-	-	-	+	-	-	0	+	+
DICHLOROMETHYL ACETATE	73	-	-	-	-	-	-	-	n.a.	n.a.	+
DICHLOROETHYLENE	73	-	-	-	-	+	-	-	+	-	+
DICYCLOHEXYLAMINE	73	-	-	0	0	-	-	-	n.a.	n.a.	+
DIESEL FUELS	73	+	+	+	+	+	-	-	+	+	+
DIETHYLAMINE	73	-	-	-	-	-	0	0	+	n.a.	+
DIETHYLENE GLYCOL	122	-	-	+	+	+	+	0	n.a.	n.a.	+
DIETHYL ETHER	73	0	n.a.	-	-	-	-	-	n.a.	n.a.	+
DIETHYL SEBACATE	73	(+)	n.a.	-	-	+	0	0	n.a.	n.a.	+
DIGLYCOLIC ACID, AQ. SOL.	122	-	-	0	0	+	+	(+)	n.a.	0	+
DIISOBUTYL KETONE	73	-	-	-	-	-	+	-	n.a.	n.a.	+
DIISOPROPYL KETONE	73	-	-	-	-	-	+	-	n.a.	n.a.	+
DIMETHYLAMINE	73	-	-	-	-	-	0	-	+	n.a.	+
DIMETHYLANILINE	73	-	-	-	-	-	+	-	n.a.	n.a.	+
DIMETHYLBUTANE	n.a.	(+)	(+)	+	+	+	-	-	n.a.	n.a.	+
DIMETHYLETHER	73	-	-	-	-	-	+	-	+	n.a.	+
DIMETHYLFORMAMIDE	73	(-)	-	-	-	-	+	0	+	+	+
DIMETHYLHYDRAZINE	73	(-)	(-)	0	0	-	+	-	n.a.	n.a.	+
DIMETHYLPHTHALATE	n.a.	-	(-)	-	-	+	+	-	n.a.	n.a.	+
DIOCTYL PHTHALATE	n.a.	-	(-)	-	-	+	+	-	+	+	+
DIOCTYL SEBACATE	73	0	0	-	-	0	0	-	n.a.	n.a.	+
DIOXANE	73	-	-	-	-	-	+	-	+	+	+
DIOXOLANES	73	-	-	-	-	-	0	-	n.a.	n.a.	+
DIPENTENE (LACQUER SOLVENT)	73	-	-	0	0	+	-	-	n.a.	n.a.	+
DIPHENYL ETHER	73	-	-	-	-	+	-	-	+	+	+
DIPHYL	302	-	-	-	+	+	-	-	-	-	+
DODECYL ALCOHOL	73	-	-	+	+	+	+	(+)	n.a.	n.a.	+
DOW CORNING 550 E	176	-	+	-	-	+	-	-	+	+	+
DOWTHERM A	302	-	-	-	+	+	-	-	-	-	+
DOWTHERM E	302	-	-	-	+	+	-	-	-	-	+

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<b>E</b> LECTROPLATING BATH (CHROME)	n.a.	n.a.	n.a.	(+)	(+)	+	+	-	-	-(0)	+
ELECTROPLATING BATH (NOT CHROME)	n.a.	n.a.	n.a.	+	(+)	+	+	-	-	-(0)	+
EPOCHLOROHYDRIN	122	-	-	-	-	-	0	-	n.a.	n.a.	+
ERIFON HD 856	140	-	+	+	+	0	(+)	(+)	+	0	+
ESSO CAZAR K1	176	+	+	+	+	+	-	-	+	+	+
ESSO ESSTIC 42, 43	73	0	+	+	+	+	-	-	+	+	+
ESSO FUEL 208	73	-	n.a.	+	+	+	-	-	n.a.	n.a.	+
ESSO NUTO H 22	176	+	+	+	+	+	-	-	+	+	+
ESSO NUTO H 68	176	+	+	+	+	+	-	0	+	+	+
ESSO SPINNESSO 10	176	+	+	+	+	+	-	-	+	+	+
ESSO THERMALOIL T	392	-	-	-	-	+	-	-	-	-	+
ETHANE	73	+	+	+	+	+	-	-	+	+	+
ETHANOL (ETHYL ALCOHOL)	140	-	-	+	+	0	+	-	+	0(+)	+
ETHANOLAMINE	73	-	0	0	0	-	+	0	n.a.	n.a.	+
ETHER	73	0	0	0	0	-	0	-	n.a.	n.a.	+
ETHYL ACETATE	73	-	0	-	-	-	+	0	+	+	+
ETHYL ACRYLATE	73	-	-	-	-	-	0	0	+	+	+
ETHYL BENZENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
ETHYL CHLORIDE	73	(0)	n.a.	+	+	+	+	-	+	+	+
ETHYLENE	73	+	+	+	+	+	-	-	+	+	+
ETHYLENE CHLORIDE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
ETHYLENE CHLOROXYDRIN	73	-	0	-	-	+	0	-	n.a.	n.a.	+
ETHYLENE DIAMINE	73	-	-	+	+	-	+	+	+	+	+
ETHYLENE DIBROMIDE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
ETHYLENE GLYCOL	212	-	-	+	+	+	+	+	n.a.	n.a.	+
ETHYLENE OXIDE	73	-	-	-	-	-	0	-	+	0(+)	+
ETHYL ETHER	73	0	0	-	-	-	-	-	+	+	+
ETHYL FORMIC ESTER	73	-	n.a.	-	-	-	0	(-)	n.a.	n.a.	+
ETHYL HEXANOL	73	-	-	+	+	+	+	0	n.a.	n.a.	+
ETHYL MERCAPTAN	73	+	+	-	-	+	0	-	n.a.	n.a.	+
ETHYL PENTACHLOROBENZENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
<b>F</b> AM-REFERENCE FUEL T1 (DIN 51604)	73	-	-	-	-	+	-	-	+	+	+
FAM-REFERENCE FUEL T2 (DIN 51604)	73	-	-	-	-	0	-	-	+	+	+
FAM-REFERENCE FUEL T3 (DIN 51604)	73	-	-	-	-	0	-	-	+	+	+
FERRIC CHLORIDE, AQ. SOL.	86	0	+	+	+	+	+	0	0	0	+
FERRIC SULFATE, AQ. SOL.	122	0	+	+	+	+	+	0	n.a.	0	+
FISH OIL	122	+	+	+	+	+	-	+	+	+	+
FLUORINE, DRY	73	-	-	-	(-)	+	0	-	-	-	+
FLUORINE, LIQUID	73	-	-	-	-	0	-	-	-	-	+
FLUOROBENZENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
FORMALDEHYDE 40%	73	-	-	+	(+)	+	+	+	+	0	+
FORMIC ACID CONCENTRATED	73	-	-	-	-	-	+	-	-	-	+
FREON / FRIGEN 11	73	0	n.a.	+	+	0	-	-	+	+	+
FREON / FRIGEN 112 (WITH / WITHOUT OIL)	73	0	0	+	+	+	-	-	+	+	+
FREON / FRIGEN 113	73	+	+	+	+	0	-	-	+	+	+
FREON / FRIGEN 114	73	+	+	+	+	0	-	-	+	+	+
FREON / FRIGEN 114 B2	73	n.a.	n.a.	0	0	0	-	-	+	+	+
FREON / FRIGEN 115	73	(+)	(+)	+	+	+	+	-	+	+	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
	FREON / FRIGEN 12	73	+	+	+	+	0	0	-	+	+
FREON / FRIGEN 13	73	-	n.a.	+	+	+	+	-	+	+	+
FREON / FRIGEN 13 B1	73	+	+	+	+	+	+	-	+	+	+
FREON / FRIGEN 134A	73	(+)	(+)	+	+	0	n.a.	-	+	+	+
FREON / FRIGEN 14	73	+	+	+	+	+	+	-	+	+	+
FREON / FRIGEN 142 B	73	(+)	(+)	+	+	-	+	-	+	+	+
FREON / FRIGEN 152 A	73	(+)	(+)	+	+	-	+	(-)	+	+	+
FREON / FRIGEN 21	73	-	n.a.	-	-	-	-	-	+	+	+
FREON / FRIGEN 218	73	(+)	(+)	+	+	+	+	(-)	+	+	+
FREON / FRIGEN 22	73	-	n.a.	-	-	-	+	-	+	+	+
FREON / FRIGEN 31	73	-	n.a.	-	-	-	+	-	+	+	+
FREON / FRIGEN 32	73	(+)	+	+	+	-	+	-	+	+	+
FREON / FRIGEN 502	73	n.a.	n.a.	0	0	0	(+)	-	+	+	+
FREON / FRIGEN BF(F112)	73	0	0	0	0	0	-	-	+	+	+
FREON / FRIGEN C 316	73	(+)	(+)	+	+	+	+	(-)	+	+	+
FREON / FRIGEN C 318	73	(+)	(+)	+	+	+	+	(-)	+	+	+
FREON / FRIGEN MF	73	(0)	(0)	+	+	0	-	-	+	+	+
FREON / FRIGEN PCA	73	+	+	+	+	0	-	-	+	+	+
FREON / FRIGEN T-P 35	73	+	+	+	+	+	+	+	+	+	+
FREON / FRIGEN T-WD 602	73	+	+	0	0	+	0	-	+	+	+
FREON / FRIGEN TA	73	+	+	+	+	-	+	+	+	+	+
FREON / FRIGEN TC	73	+	+	+	+	+	0	-	+	+	+
FREON / FRIGEN TF	73	+	+	+	+	+	-	-	+	+	+
FREON / FRIGEN TMC	73	0	0	0	0	+	0	-	+	+	+
FRUIT-JUICE	73	0	+	+	+	+	+	+	+	+	+
FUEL OIL, HEAVY	104	0	+	0	0	+	-	0	+	+	+
FUEL OIL, LIGHT	104	0	n.a.	+	+	+	-	0	+	+	+
FURAN	n.a.	(-)	n.a.	-	-	(-)	-	(-)	n.a.	n.a.	+
FURFURAL	n.a.	(-)	(-)	-	-	-	0	-	n.a.	n.a.	+
FURFUR ALCOHOL	n.a.	(-)	-	-	-	(-)	+	-	n.a.	n.a.	+
FURFUROL (A-FURFURYLALDEHYDE)	73	(-)	(-)	-	-	-	+	(-)	+	0(+)	+
FYRQUEL LT (AKZO NOBEL)	176	-	-	n.a.	n.a.	+	-	-	n.a.	n.a.	+
<b>GAMMA-RAYS</b>	68	+	+	0	0	-	0	0	-	0	-
GAS OIL	73	0(+)	0(+)	+	+	+	-	-	+	+	+
GASOLINE	73	0	0	+	+	+	-	-	+	+	+
GASOLINE (20% ETHANOL)	73	-	-	0	(0)	+	-	-	n.a.	n.a.	+
GASOLINE (20% METHANOL)	73	-	-	-	-	0	-	-	n.a.	n.a.	+
GASOLINE HIGH-OCTANE	73	0	0	0	0	+	-	-	+	+	+
GASOLINE M-15 (15% METHANOL)	73	-	-	-	-	0	-	-	+	+	+
GASOLINE, 92 OCTANE	73	0	0	+	+	+	-	-	+	+	+
GASOLINE, 98 OCTANE	73	0	0	0	-	+	-	-	+	+	+
GASOLINE, REFINED	73	+	+	+	+	+	-	-	+	+	+
GEAR LUBES, HYPOID LUBES, ATF	176	n.a.	n.a.	0	+	+	-	-	(-0)	+	+
GEAR LUBES SAE 80 / SAE 90	176	n.a.	n.a.	+	+	+	-	0	n.a.	n.a.	+
GELATINE, AQ. SOL.	122	0	n.a.	+	+	+	+	+	+	+	+
GENERATOR GAS	73	+	+	+	+	+	-	0	+	+	+
GLUCOSE, AQ. SOL.	122	0	+	+	+	+	+	+	n.a.	n.a.	+
GLUE	n.a.	+	+	+	+	+	+	+	+	+	+
GLYCERIN (GLYCEROL)	122	-	(+)	+	+	+	+	+	+	+	+
GLYSANTINE (ANTIFREEZE)	140	-	-	+	+	+	+	+	n.a.	n.a.	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
GLYSANTINE / WATER (40 : 60 VOL%)	212	(-)	n.a.	0	0	+	+	n.a.	+	0(+)	+
GREASE, ANIMAL BASE	122	+	+	+	+	+	0	+	+	+	+
GREASE, PETROLEUM BASE	122	+	+	+	+	+	-	-	+	+	+
GREASE, VEGETABLE BASE	122	+	+	+	+	+	-	+	+	+	+
<b>HALON 1211 (FIRE-EXTINGUISHING MEDIUM)</b>	73	+	+	-	-	0	-	-	n.a.	n.a.	+
HALON 1301	73	+	+	+	+	+	+	-	n.a.	n.a.	+
HELIUM	73	+	+	+	+	+	+	+	+	+	+
HEPTANE (n-HEPTANE)	73	+	n.a.	+	+	+	-	-	+	+	+
HEPTANONE	73	-	-	-	-	-	0	-	n.a.	n.a.	+
HESSOL BIOL HE 46	176	0	+	-	-	+	-	-	+	+	+
HESSOL BIOL HR 37	176	0	+	-	-	+	-	-	+	+	+
HEXACHLOROCYCLOHEXANE	73	0	n.a.	-	-	+	-	-	+	-(0)	+
HEXANE (n-HEXANE)	73	+	+	+	+	+	-	-	+	+	+
HEXYL ALCOHOL	73	-	-	0	0	+	0	0	n.a.	+	+
HOUGHTO-SAFE 271, 620	122	-	0	+	+	0	+	0	+	0	+
HOUGHTO-SAFE 1010, 1055	122	-	-	-	-	+	+	-	n.a.	n.a.	+
HOUGHTO-SAFE 5040	122	-	(+)	+	+	+	-	-	+	0	+
HYDRAULIC FLUID HFA (OIL IN WATER)	122	-	+	+	+	+	-	0	+	0	+
HYDRAULIC FLUID HFB (WATER IN OIL)	122	-	+	+	+	+	-	(+)	+	0	+
HYDRAULIC FLUID HFC (POLYALKYLENE-GLYCO	140	-	0	+	+	0	+	(+)	+	0	+
HYDRAULIC FLUID HFD-R (PHOSPHATE ESTER)	212	-	-	-	-	+	+	-	n.a.	n.a.	+
HYDRAULIC FLUID HFD-S (CHLOR.HYDROCARB.)	212	-	-	-	-	+	-	(+)	n.a.	n.a.	+
HYDRAULIC FLUID HFD-U (SYNTH. ESTER)	176	-(0)	+	-	0(+)	+	-	(-)	+	+	+
HYDRAULIC OIL (PETROLEUM BASE)	176	+	+	+	+	+	-	0	+	+	+
HYDRA - VIS (HOUGHTON VAUGHAN)	158	-	-	-	-	-	-	-	+	0	+
HYDRAZINE	73	-	-	0	0	-	+	-	+	n.a.	+
HYDROBROMIC ACID, AQ. SOL.	122	-	-	-	-	+	+	-	-	-	+
HYDROCHLORIC ACID 10%	104	-	0	0	0	+	+	0	-	-	+
HYDROCHLORIC ACID FUMING	73	-	-	-	-	-	0	-	-	-	+
HYDROFLUORIC ACID 48%	73	-	-	-	(-)	+	+	-	-	-	+
HYDROFLUORIC ACID 75%	73	-	-	-	(-)	0	+	-	-	-	+
HYDROGEN CHLORIDE, GAS	73	-	-	-	-	+	+	-	-	-	+
HYDROGEN FLUORIDE, DRY	73	-	-	-	-	+	0	-	n.a.	n.a.	+
HYDROGEN, GAS	73	+	+	+	+	+	+	-	+	+	+
HYDROGEN PEROXIDE 30%	73	+	+	-	-	+	+	0	-	-	+
HYDROGEN PEROXIDE 90%	73	-	0	-	-	+	0	0	-	-	+
HYDROGEN SULFIDE	73	0	n.a.	0	0	-	+	-	+	0(+)	+
HYDROLUBRIC 120 B (HOUGHTON VAUGHAN)	140	-	+	+	+	+	+	+	+	0	+
HYDROQUINONE	73	-	-	-	-	+	0	-	n.a.	-	+
HYDROXYL-AMINE SULFATE, AQ. SOL.	73	-	n.a.	+	+	+	+	+	+	0	+
HYPOCHLOROUS ACID	73	-	-	-	-	+	+	-	n.a.	n.a.	+
HY-TRANS-PLUS MS 1207 (CASE)	176	+	+	0	+	+	-	-	n.a.	n.a.	+
H-17(HUNGARY)	140	-	+	+	+	+	-	-	+	0	+
<b>IODINE PENTAFLUORIDE</b>	73	-	-	-	-	-	-	-	n.a.	n.a.	+
IODOFORM	73	n.a.	-	n.a.	n.a.	n.a.	+	n.a.	-	-	+
ISOPROPANOL	73	-	-	0	0	+	+	+	+	+	+
ISOPROPYL CHLORIDE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
ISOPROPYL ETHER	73	0	n.a.	0	0	-	-	-	n.a.	n.a.	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
<b>JAM</b>	73	0	+	+	+	+	+	+	+	+	+
JET FUEL A1	176	-	0(+)	+	+	+	-	-	n.a.	n.a.	+
<b>KEROSENE</b>	73	+	+	+	+	+	-	-	+	+	+
KETCHUP	122	0	+	+	+	+	+	+	n.a.	n.a.	+
KLÜBER SYNTHESO D 220 - EP	176	n.a.	n.a.	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
KLÜBER SYNTHESO PROBA 270	122	+	+	+	+	+	+	n.a.	n.a.	n.a.	+
<b>LARD, ANIMAL FAT</b>	140	+	+	+	+	+	0	+	+	+	+
LAUGHING GAS	73	+	+	+	+	+	+	+	+	+	+
LAURYL ALCOHOL	73	-	-	+	+	0	+	(+)	n.a.	n.a.	+
LAVENDER OIL	73	-	n.a.	0	0	+	-	-	+	+	+
LEAD ACETATE	122	-	n.a.	0	0	-	+	-	+	+	+
LIME SULFUR-WET	122	n.a.	n.a.	-	(0)	+	+	+	n.a.	n.a.	+
LINSEED OIL	73	+	+	+	+	+	-	0	+	+	+
LIQUEUR (MAX. 30% ALCOHOL)	73	-	(+)	+	+	+	+	+	+	0	+
LITHIUM BROMIDE, AQ. SOL.	122	-	n.a.	+	+	+	+	+	+	0	+
LUBRICATING OIL	176	+	+	+	+	+	-	-	+	+	+
<b>MAGNESIUM CHLORIDE, AQ. SOL.</b>	122	0	+	+	+	+	+	+	+	0	+
MAGNESIUM HYDROXIDE, AQ. SOL.	122	-	(+)	+	+	+	+	+	+	0	+
MAGNESIUM SULFATE (EPSOM SALTS), AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
MAIZE OIL	n.a.	+	+	+	+	+	-	+	+	+	+
MALEIC ACID, AQ. SOL.	122	-	0	0	0	+	+	-	n.a.	n.a.	+
MALIC ACID	73	-	n.a.	+	+	+	-	0	+	0	+
MARGARINE	104	-	n.a.	+	+	+	-	+	+	+	+
MARSH GAS	73	0	n.a.	+	+	+	-	-	+	+	+
MAYONNAISE	122	-	n.a.	+	+	0	-	+	+	+	+
MERCURY	73	+	+	+	+	+	+	+	+	+	+
MERCURY CHLORIDE, AQ. SOL.	122	-	n.a.	+	+	+	+	+	+	-	+
MESITYL OXIDE	73	-	-	-	-	-	+	-	+	0(+)	+
METHANE	73	0	n.a.	+	+	+	-	-	+	+	+
METHANOL	122	-	-	0	0	-	+	+	+	+	+
METHYL ACRYLATE	73	-	-	-	-	-	0	-	n.a.	n.a.	+
METHYL AMINE, AQ. SOL.	122	-	-	0	0	-	+	(-)	+	+	+
METHYL BROMIDE	73	-	-	-	-	+	-	-	+	+	+
METHYL BUTYL KETONE	73	-	-	-	-	-	+	-	n.a.	n.a.	+
METHYL CHLORIDE	73	-	-	-	-	+	-	-	+	+	+
METHYL CYCLOPENTANE	73	-	-	-	-	+	-	0	n.a.	n.a.	+
METHYLENE CHLORIDE	73	-	-	-	-	0	-	-	0	-(0)	+
METHYLENE DICHLORIDE	73	-	-	-	-	0	-	-	0	0	+
METHYL ETHER	73	n.a.	n.a.	+	+	+	+	+	n.a.	n.a.	+
METHYL ETHYL KETONE	73	-	-	-	-	-	+	-	0	+	+
METHYL FORMATE	73	-	-	-	-	-	0	0	n.a.	n.a.	+
METHYL ISOBUTYL KETONE	73	-	-	-	-	-	0	-	n.a.	n.a.	+
METHYL ISOPROPYL KETONE	73	-	-	-	-	-	0	-	n.a.	n.a.	+



## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
METHYL METHACRYLATE	73	-	-	-	-	-	-	-	n.a.	n.a.	+
METHYL OLEATE	73	-	n.a.	-	-	+	0	-	n.a.	n.a.	+
MILK	122	0	+	+	+	+	+	+	+	0	+
MILK ACID, AQ. SOL.	122	0	+	0	0	+	0	+	+	+	+
MILK, CONDENSED	122	0	+	+	+	+	+	+	+	0	+
MINERAL OIL	176	+	+	+	+	+	-	0	+	+	+
MOBIL AMBREX 33	176	0	+	+	+	+	-	-	+	+	+
MOBIL AMBREX 830	176	+	+	+	+	+	-	0	+	+	+
MOBIL DELVAC 1100, 1110, 1120, 1130	158	0	+	+	+	+	-	-	+	+	+
MOBIL DTE 25	176	+	+	+	+	+	-	-	+	+	+
MOBIL OIL SAE 20	158	+	+	+	+	+	-	-	+	+	+
MOBIL THERM 600	176	-	n.a.	+	+	+	-	-	+	+	+
MOBIL VACTRA NR.2	176	+	+	+	+	+	-	0	+	+	+
MOLASSES	73	0	(+)	+	+	+	+	+	+	+	+
MOLYDUVAL MOLYKOTE-GREASE	122	+	+	+	+	+	-	-	+	+	+
MONOBROMOBENZENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
MONOCHLOROACETIC ACID	73	-	-	-	-	-	+	-	n.a.	n.a.	+
MONOCHLOROBENZENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
MONOETHANOLAMINE	73	-	-	0	0	-	+	0	n.a.	n.a.	+
MORPHOLINE	73	-	n.a.	-	-	-	-	-	n.a.	n.a.	+
MOTOR OIL	176	0	+	+	+	+	-	0	+	+	+
MUSTARD	122	+	+	+	+	+	+	+	n.a.	n.a.	+
MUSTARD GAS	73	n.a.	n.a.	n.a.	n.a.	+	+	+	n.a.	n.a.	+
MUSTARD OIL	140	n.a.	n.a.	+	+	+	n.a.	n.a.	n.a.	n.a.	+
<b>N</b> APHTHALENE	73	0	n.a.	-	-	+	-	-	+	+	+
NATURAL GAS	73	0	n.a.	+	+	+	-	-	+	+	+
NEON	73	+	+	+	+	+	+	+	+	+	+
NICKEL ACETATE, AQ. SOL.	122	-	n.a.	0	0	-	+	-	+	0	+
NICKEL SULFATE, AQ. SOL.	122	0	(+)	+	+	+	+	+	+	0	+
NITRIC ACID 10%	122	-	0	-	-	+	+	0	-	-	+
NITRIC ACID 65%	73	-	-	-	-	0	-	-	-	-	+
NITRIC ACID FUMING	73	-	-	-	-	-	-	-	-	-	+
NITROBENZENE	122	-	-	-	-	+	+	-	0	0	+
NITRO DILUTION	73	-	-	-	-	-	-	-	n.a.	n.a.	+
NITROETHANE	73	-	-	-	-	-	0	-	n.a.	n.a.	+
NITROGEN	73	+	+	+	+	+	+	+	+	+	+
NITROGEN TETROXIDE	73	-	-	-	-	-	0	-	-	0	+
NITROMETHANE	73	-	-	-	-	-	0	-	n.a.	0(+)	+
1-NITROPROPANE	73	-	(0)	-	-	-	0	-	n.a.	n.a.	+
<b>O</b> CEANIC HW 443	140	-	0	+	+	0	n.a.	n.a.	n.a.	n.a.	+
OCEANIC HW 443	158	-	-	+	+	0	n.a.	n.a.	n.a.	n.a.	+
OCEANIC HW 540	140	-	+	+	+	0	n.a.	n.a.	n.a.	n.a.	+
OCEANIC HW 540	158	-	0	+	+	0	n.a.	n.a.	n.a.	n.a.	+
O-CHLOROETHYLBENZENE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
OCTADECANE	73	+	+	+	+	+	-	-	+	+	+
OCTANE (N-OCTANE)	73	-	-	0	0	+	-	-	+	+	+
OCTYL ALCOHOL	73	-	n.a.	0	0	0	0	0	n.a.	n.a.	+
OCTYL CRESOL	73	-	n.a.	0	0	0	-	-	n.a.	n.a.	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
OLEIC ACID	73	0	(+)	+	+	+	-	-	+	+	+
OLIVE OIL	122	+	+	+	+	+	-	0	+	+	+
ORANGE ESSENCE	122	n.a.	n.a.	-	-	0	-	-	+	+	+
OXALIC ACID 25%	73	0	n.a.	0	0	+	+	0	n.a.	0	+
OXYGEN	73	+	+	0	+	+	+	+	+	+	+
OZONE AIR MIXTURE , 50 PPHM OZONE	104	+	+	-	0	+	+	+	0	0	+
<b>P</b> ALMITIC ACID	73	+	+	+	+	+	0	-	+	+	+
PARAFFIN MOLTEN	131	+	+	+	+	+	-	0	+	+	+
PARAFFIN OIL	122	+	+	+	+	+	-	0	+	+	+
PEANUT OIL	73	0	+	+	+	+	-	+	+	+	+
PENTACHLORODIPHENYL	n.a.	-	-	-	-	+	-	-	n.a.	n.a.	+
PENTANE , N-PENTANE	73	n.a.	n.a.	+	+	+	-	-	n.a.	n.a.	+
PENTOSIN CHF 11S	176	0	+	+	+	+	-	-	+	+	+
PERCHLORIC ACID	73	-	-	-	-	0	0	-	n.a.	n.a.	+
PERCHLOROETHYLENE	73	-	-	-	-	+	-	-	+	0	+
PETROLEUM	73	+	+	+	+	+	-	-	+	+	+
PETROLEUM	212	-	0	0	0	0	-	-	(+)	+	+
PETROLEUM ETHER	73	+	+	+	+	+	-	-	+	+	+
PHENOL	73	-	-	-	-	+	-	-	-	-	+
PHENOL/WATER 70:30 %WEIGHT	122	-	-	-	-	+	-	-	-	-	+
PHENYL ETHYL ETHER	73	-	-	-	-	-	-	-	n.a.	n.a.	+
PHENYL HYDRAZINE	73	(-)	(-)	-	-	+	-	(-)	n.a.	n.a.	+
PHOSGENE GAS	73	(-)	-	-	-	-	+	(-)	n.a.	n.a.	+
PHOSGENE LIQUID	73	(-)	(-)	-	-	-	+	(-)	n.a.	n.a.	+
PHOSPHORIC ACID 20%	122	-	0(+)	0	0	+	+	0	-	-	+
PHOSPHORIC ACID CONCENTRATED	122	-	n.a.	-	-	+	+	-	-	-	+
PHOSPHOROUS OXYLCHLORIDE	73	(-)	-	-	-	+	+	(-)	n.a.	n.a.	+
PHOSPHOROUS TRICHLORIDE	73	-	-	-	-	+	+	-	n.a.	n.a.	+
PHOTOGRAPHIC DEVELOPER	73	-	n.a.	+	(+)	+	+	+	+	0	+
PHOTOGRAPHIC FIXER	73	-	n.a.	+	(+)	+	+	+	+	0	+
PICRIC ACID 10%	73	(0)	(+)	+	+	+	+	-	0	n.a.	+
PINE NEEDLE OIL	104	+	+	+	+	+	-	-	+	+	+
PINE OIL	104	+	+	0	0	+	-	-	+	+	+
PIPERIDINE	73	-	-	-	-	-	-	-	n.a.	n.a.	+
PLANTOHYD 40 (GENOL)	176	0	+	-	-	+	-	-	+	0	+
POLYVINYL ACETATE EMULSION	73	n.a.	n.a.	+	+	0	+	-	n.a.	n.a.	+
POTASH CAUSTIC 10%	73	0	+	0	0	0	+	-	+	0	+
POTASSIUM ACETATE, AQ. SOL.	122	(-)	n.a.	0	0	-	+	-	+	0	+
POTASSIUM BORATE, AQ. SOL.	122	n.a.	n.a.	+	+	+	+	+	+	0	+
POTASSIUM BROMATE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
POTASSIUM BROMIDE, AQ. SOL.	122	-	0(+)	+	+	+	+	+	+	+	+
POTASSIUM CARBONATE, AQ. SOL.	122	-	n.a.	+	+	+	+	0	n.a.	n.a.	+
POTASSIUM CHLORATE, AQ. SOL.	122	0	+	0	0	+	+	n.a.	n.a.	+	+
POTASSIUM CHLORIDE, AQ. SOL.	122	0	+	+	+	+	+	+	+	+	+
POTASSIUM CYANIDE, AQ. SOL.	122	0	+	+	+	0	+	+	+	n.a.	+
POTASSIUM DICHROMATE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
POTASSIUM HYDROXIDE 10 %	73	0	+	0	0	0	+	-	+	0	+
POTASSIUM PERCHLORATE, AQ. SOL.	122	n.a.	n.a.	0	0	+	+	-	0	+	+
POTASSIUM PERMANGANATE 25 %	73	-	0(+)	(-)	(-)	0	+	n.a.	+	-	+
PROPANE	73	+	+	+	+	+	-	-	+	+	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
PROPANOL	73	-	n.a.	+	+	+	+	+	+	+	+
PROPYL ACETATE	73	-	-	-	-	-	0	-	n.a.	n.a.	+
PROPYL AMINE	73	-	-	-	-	-	+	-	n.a.	n.a.	+
PROPYLENE	73	-	n.a.	-	-	+	-	-	+	+	+
PROPYLENE GLYCOL	73	0	n.a.	+	+	+	+	+	n.a.	n.a.	+
PROPYLENE OXIDE	73	-	n.a.	-	-	-	0	-	n.a.	n.a.	+
PRUSSIC ACID	73	-	-	0	0	-	+	-	-	n.a.	+
P-TERTIARY BUTYL CATECHOL	73	-	-	-	-	+	0	n.a.	n.a.	n.a.	+
PYDRAUL 29ELT, 30E, 50E, 65E, 90E	176	-	(-)	-	-	+	+	0	n.a.	n.a.	+
PYDRAUL 312C, 540C	176	-	n.a.	-	-	+	-	-	n.a.	n.a.	+
PYDRAUL F-9	176	-	n.a.	-	-	+	0	n.a.	n.a.	n.a.	+
PYRANOL (TRANSFORMER OIL)	73	0	n.a.	+	+	+	-	-	n.a.	n.a.	+
PYRIDINE	73	-	-	-	-	-	0	-	0(+)	+	+
PYRROLE	73	-	n.a.	-	-	-	-	0	n.a.	n.a.	+
<b>Q</b> UINTOLUBRIC N822 - 220	176	-	+	-	0	+	-	(-)	+	+	+
QUINTOLUBRIC N822 - 300	176	0	+	-	0	+	-	(-)	+	+	+
QUINTOLUBRIC N850	176	0	+	-	0	+	-	(-)	+	+	+
Q8 KIRON LT68 (KUWAIT PETROLEUM)	140	-	+	+	+	+	-	-	+	0	+
<b>R</b> APE OIL (RAPE SEED OIL)	176	0	+	0	0	+	-	-	+	+	+
RARE GAS	n.a.	+	+	+	+	+	+	0	+	+	+
REFERENCE FUEL A (ISO 1817)	73	+	+	+	+	+	-	-	+	+	+
REFERENCE FUEL B (ISO 1817)	73	0	0	0	-	+	-	-	+	+	+
REFERENCE FUEL C (ISO 1817)	73	-	-	-	-	+	-	-	+	+	+
REFERENCE FUEL D (ISO 1817)	73	-	-	-	-	+	-	-	+	+	+
RENOLIN MR 20 VG 68 (FUCHS)	176	+	+	+	+	+	-	0	+	+	+
<b>S</b> ALT SOLUTION	122	0	+	+	+	+	+	+	+	0	+
SAUERKRAUT	73	-	+	+	+	0	+	+	+	0	+
SHELL ALVANIA R 2	140	+	+	+	+	+	-	0	+	+	+
SHELL DIALA-OIL D	176	+	+	+	+	+	-	-	+	+	+
SHELL DROMUS OIL B	140	-	+	+	+	+	-	-	+	0	+
SHELL FIREGARD 200	140	-	0(+)	+	+	0	+	(+)	+	0	+
SHELL HSG 80W/90	176	+	+	+	+	+	-	-	+	+	+
SHELL HYDROL DO 46	176	+	+	+	+	+	-	0	+	+	+
SHELL MACOMA 72	176	+	+	+	+	+	-	-	+	+	+
SHELL NATURELLE HF-E 15	176	-	+	-	-	+	-	-	+	+	+
SHELL OMALA 68	176	+	+	+	+	+	-	0	+	+	+
SHELL TELLUS 27, 33	176	+	+	+	+	+	-	-	+	+	+
SHELL TELLUS T 37	176	+	+	+	+	+	-	-	+	+	+
SHELL TELLUS 68	176	+	+	+	+	+	-	-	+	+	+
SHELL TELLUS 68 + 5% CASTROL CX 23	176	0	+	+	+	+	-	-	+	+	+
SHELL TIRENA WA	176	+	+	+	+	+	-	0	+	+	+
SHELL TMO SW 30	176	-	+	-	-	+	-	-	+	+	+
SIDERLUBRIC 822-200	176	-	+	-	0	+	-	-	+	+	+
SILICONE GREASE, SILICONE OIL	122	+	+	0	0	+	0	-	+	+	+
SILICONE GREASE, SILICONE OIL	176	0	+	-	-	+	-	-	+	+	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
SILVER NITRATE, AQ. SOL.	122	0	+	0	(+)	+	+	+	+	0	+
SKYDROL 500 B4 (MONSANTO)	158	-	-	-	-	-	+	-	n.a.	+	+
SKYDROL LD4 (7000) (MONSANTO)	158	-	-	-	-	-	+	-	n.a.	+	+
SODIUM ACETATE, AQ. SOL.	122	-	n.a.	0	0	-	+	-	+	0	+
SODIUM BENZOATE, AQ. SOL.	122	-	n.a.	+	+	+	+	+	+	0	+
SODIUM BISULFITE, AQ. SOL.	122	0	+	+	+	+	+	+	n.a.	0	+
SODIUM BORATE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
SODIUM CARBONATE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
SODIUM CHLORATE, AQ. SOL.	122	0	+	+	+	+	+	-	+	0	+
SODIUM CHLORIDE(SALT), AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
SODIUM CYANIDE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
SODIUM DICHROMATE, AQ. SOL.	122	0	+	+	+	+	+	0	n.a.	0	+
SODIUM HYDROXIDE 10% (CAUSTIC SODA)	122	-	0	0	0	0	+	-	0	0	+
SODIUM HYDROXIDE 25% (CAUSTIC SODA)	122	-	0	0	0	-	+	-	0	0	+
SODIUM HYPOCHLORITE, AQ. SOL.	86	-	(0)	-	-	0	0	0	-	-(0)	+
SODIUM NITRITE, AQ. SOL.	122	-	n.a.	+	+	+	+	+	+	0	+
SODIUM PERBORATE, AQ. SOL.	122	0	+	0	0	+	+	0	+	n.a.	+
SODIUM STEARATE, AQ. SOL.	122	n.a.	n.a.	+	+	+	+	+	n.a.	n.a.	+
SODIUM SULFATE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
SODIUM SULFIDE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+
SODIUM THIOSULFATE, AQ. SOL.	73	0	+	+	+	+	+	+	+	0	+
SOLUBLE OIL	n.a.	+	+	+	+	+	-	-	+	+	+
SOUP SOLUTION	122	-	+	+	+	+	+	+	+	0	+
SOUR MILK	122	-	+	+	+	+	+	+	+	0	+
SOYA OIL	122	0	+	+	+	+	-	-	+	+	+
SPIRITS, SCHNAPS	73	-	0(+)	+	+	+	+	+	+	+	+
STARCH, AQ. SOL.	122	0	+	+	+	+	+	+	n.a.	n.a.	+
STEAM, UP TO 302°F	302	-	-	-	-	-	+	-	-	-	+
STEAM, UP TO 356°F	356	-	-	-	-	-	0	-	-	-	+
STEARIC ACID	122	0	+	0	0	+	0	-	+	+	+
STYRENE, MONOMER	73	-	(0)	-	-	0	-	-	+	+	+
SULFUR CHLORIDE	73	-	n.a.	-	-	+	-	-	n.a.	n.a.	+
SULFUR DIOXIDE, DRY	122	-	n.a.	-	-	+	+	0	-	+	+
SULFUR DIOXIDE, WET	122	-	n.a.	-	-	+	+	0	-	0(+)	+
SULFUR HEXAFLUORIDE	73	0	n.a.	0	0	0	+	0	+	+	+
SULFURIC ACID 10%	73	-	+	-	0	+	+	-	0	-(0)	+
SULFURIC ACID 25%	73	-	n.a.	-	-	+	+	-	n.a.	n.a.	+
SULFURIC ACID 50%	73	-	-	-	-	+	+	-	n.a.	n.a.	+
SULFURIC ACID 60%	73	-	-	-	-	+	+	-	n.a.	n.a.	+
SULFURIC ACID 75%	212	-	-	-	-	0	+	-	n.a.	n.a.	+
SULFURIC ACID 96%	73	-	-	-	-	+	+	-	-	-	+
SULFUR MOLTEN	mp.	-	-	-	-	+	+	-	+	+	+
SULFUROUS ACID	73	-	n.a.	0	0	+	+	-	-	0(+)	+
SULFUR TRIOXIDE, DRY	73	-	(+)	-	-	+	0	0	n.a.	n.a.	+
SUNFLOWER OIL	176	+	+	+	+	+	-	+	+	+	+
SUVA HP 62	73	+	+	n.a.	n.a.	n.a.	n.a.	n.a.	+	+	+
SUVA 134a	73	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	+	+	+
SUVA 9000	73	0	0	n.a.	n.a.	n.a.	n.a.	n.a.	+	+	+
<b>TANNIC ACID</b>	73	+	+	+	+	+	+	0	0	n.a.	+
TAR , TAR OIL	73	0	+	-	-	+	-	-	+	+	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
TEBIOL HVI 32 A	176	-	+	-	-	+	-	-	+	+	+
TERTIARY BUTYL MERCAPTAN	73	-	-	-	-	+	-	-	n.a.	n.a.	+
TETRABROMOETHANE	73	-	n.a.	-	-	+	-	-	n.a.	n.a.	+
TETRACHLOROETHANE	73	-	-	-	-	+	-	-	n.a.	n.a.	+
TETRACHLOROMETHANE	73	(0)	(0)	-	-	+	-	-	0	+	+
TETRAETHYL LEAD	73	0	n.a.	0	0	+	-	-	n.a.	-	+
TETRAHYDROFURAN	73	-	-	-	-	-	-	-	0	0(+)	+
TETRALIN (SULFOLANE)	73	-	-	-	-	+	-	-	+	+	+
TEXACO REGAL B	158	+	+	+	+	+	-	-	+	+	+
TEXACO UNI-TEMP	73	+	+	+	+	+	-	0	+	+	+
TEXAMATIC "A" TRANSMISSION-OIL	73	0	n.a.	+	+	+	-	-	+	+	+
THIOKOL TP-90 B	73	n.a.	n.a.	-	-	+	+	n.a.	n.a.	n.a.	+
THIOKOL TP-95	73	n.a.	n.a.	-	-	+	+	n.a.	n.a.	n.a.	+
THIONYL CHLORIDE	73	-	n.a.	-	-	0	-	-	n.a.	n.a.	+
TOLUENE	73	-	-	-	-	+	-	-	+	+	+
TOLUYLENE DIISOCYANATE	73	-	-	-	-	0	0	-	n.a.	n.a.	+
TOOTH-PASTE	122	n.a.	(+)	+	+	+	+	+	+	+	+
TRANSFORMER OIL	73	+	+	+	+	+	-	0	+	+	+
TRIACETIN	73	-	n.a.	0	0	-	+	+	n.a.	n.a.	+
TRIBUTYL PHOSPHATE	73	-	-	-	-	-	+	0	n.a.	n.a.	+
TRICHLOROACETIC ACID	73	-	-	-	-	-	0	-	-	-	+
TRICHLOROETHANE	73	-	-	-	-	+	-	-	0	(+)	+
TRICHLOROETHYLENE (TRIAD)	73	-	-	-	-	+	-	-	-	0(+)	+
TRICRESYL PHOSPHATE	73	(-)	n.a.	-	-	+	+	0	+	+	+
TRIETHANOLAMINE	73	-	-	0	0	-	+	(-)	+	+	+
TRINITROTOLUENE	73	-	-	-	-	0	-	-	n.a.	n.a.	+
TRIOCTYL PHOSPHATE	73	-	-	-	-	0	+	-	n.a.	n.a.	+
TURPENTINE	122	-	n.a.	0	0	+	-	-	+	+	+
<b>U</b> NIVIS 40 (ESSO)	158	+	+	+	+	+	-	-	+	+	+
UNIVIS J 13 (ESSO)	176	+	+	+	+	+	-	-	+	+	+
UREA, AQ. SOL.	122	0	n.a.	+	+	+	+	0	+	+	+
<b>V</b> ACUUM PUMP OIL N 62 (LEYBOLD)	176	+	+	0	+	+	-	+	+	+	+
VASELINE	104	+	+	+	+	+	-	+	+	+	+
VEGETABLE OIL	73	+	+	+	+	+	-	+	+	+	+
VINEGAR 5%	73	-	+	0	0	+	+	+	+	0	+
VINYL CHLORIDE	73	-	-	-	-	+	0	-	+	+	+
<b>W</b> AGNER 21 B	73	-	-	-	-	-	+	0	n.a.	n.a.	+
WATER, DISTILLED	212	-	0	0	+	0	+	+	(+)	0	+
WATER, DRINKING (COLD)	68	+	+	+	+	+	+	+	+	0	+
WATER, DRINKING (HOT)	176	-	+	0	+	0	+	+	+	0	+
WATER, DRINKING (HOT)	212	-	0	0	+	0	+	+	(+)	(0)	+
WATER, DRINKING (MINERAL)	122	-	+	+	+	+	+	+	+	0	+
WATER, SEA	176	-	+	+	+	+	+	+	+	0	+
WATER, WASTE	122	-	+	+	+	+	0	0	+	0	+
WATERGLASS	73	0	+	+	+	+	+	+	+	+	+

## list of resistance

MEDIUM	TEMPERATURE [°F]	ECOPUR / T-ECOPUR	H-ECOPUR / G-ECOPUR	ECORUBBER I (NBR)	ECORUBBER-H (H-NBR)	ECORUBBER II (FPM)	ECORUBBER III (EPDM)	ECOSIL (MVQ)	ECOTAL	ECOMID	ECOFLO I
	WHISKEY	73	-	0(+)	+	+	+	+	+	+	0
WINE (WHITE, RED)	73	-	+	+	+	+	+	+	+	0	+
WOOD OIL	73	0	+	+	+	+	-	-	+	+	+
<b>X</b> ENON	73	+	+	+	+	+	+	+	+	+	+
XYLENE	73	-	-	-	-	+	-	-	+	+	+
<b>Y</b> EAST, AQ. SOL.	86	-	n.a.	+	+	+	+	+	+	+	+
YOGHURT	122	-	(+)	+	+	+	+	+	+	+	+
<b>Z</b> INC ACETATE, AQ. SOL.	122	-	-	0	0	0	+	-	n.a.	n.a.	+
ZINC CHLORIDE, AQ. SOL.	122	0	+	+	+	+	+	+	+	0	+

**LEGEND:**

- + resistant
- 0 conditional resistant
- not resistant
- ( ) presumedly
- n.a. not available

All data and recommendations shown in this list are based on many years of experience in production of seals, and on information from the specialised literature. In spite of all the experiences, unknown factors in the application of seals can influence the correctness of general recommendation tremendously, for which reason the recommendations and prop resulting from this list cannot be regarded as binding.

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