Chemical resistance certificates

Magnetic Leak Patch MLP (SIL)

Resistance levels:

A resistant
B resistant for at least 3 hours
C non-resistant

Applicable to MLP made of special addition-cured silicone elastomer.

Name of substance	Resistance level at the temperature of 20 °C
Acetaldehyde	A
Acetamide	B
Acetate solvent	B
Acetone	C
Acetylene	B
Acetyl chloride (dry)	B
Acrylonitrile	C
Ammonia (anhydrous)	B
Amyl acetate	C
Amyl alcohol	C
Amyl chloride	C
Acetic anhydride	B
Aniline	B
Aniline hydrochloride	C
Aniline oil	C
Peanut oil	A
Aromatic hydrocarbons	C
Asphalt	C
Benzaldehyde	C
Benzene	C
Unleaded gasoline	C
Benzol	C
Benzenenitrile (Benzonitrile)	A
Benzyl chloride	C
Calcium bisulfide	B
Sodium borate	A
Pine oil	C
Bromine	C
Potassium bromide	A
Butadiene	C
Butane	C
Butanol	B
Butyl phthalate	A
Butyl acetate	C
Butyl alcohol	B
Butylamine	B
Butylene	C
Butyl ether	C
Calgon	A
Cider	B
Tin salts	B
Liquid sugar	A
Cyclohexane	C
Cyclohexanone	C
Cleaning agents	A
Diacetone alcohol	C
Diethylamine	B
Diethylene glycol	B
Diethyl ether	C
Diphenyl	C
Diphenyl oxide	B

Name of substance	Resistance level at the temperature of 20 °C
Dichlorobenzene	C
Potassium dichromate	A
Dimethylaniline	C
Dimethylformamide	B
Ammonium nitrate	B
Barium nitrate	B
Potassium nitrate	A
Aluminum nitrate	B
Lead nitrate	B
Sodium nitrate	C
Silver nitrate	A
Calcium nitrate	B
Ferric nitrate	B
Ethane	C
Ethanol	B
Ethanolamine	B
Ether	C
Ethyl acetate	B
Ethyl alcohol	B
Ethyl benzoate	C
Ethylenediamine	A
Ethylene dichloride	C
Ethylene bromide	C
Ethylene glycol	A
Ethylene chlorohydrin	B
Ethylene chloride	C
Ethylene oxide	C
Ethyl ether	C
Ethyl chloride	C
Phenol, 10%	C
Fluorine	C
Aluminum fluoride	B
Formaldehyde, 100%	B
Sodium phosphate	A
Freon 11	C
Freon 113	C
Freon 12	C
Freon 22	C
Freon TF	C
Furan resin	C
Furfural	C
Glucose	A
Glycerin	A
Grapefruit juice	A
Heptane	C
Sulfur hexafluoride	B
Hexane	C
Hexyl alcohol	B
Synthetic hydraulic oil	B
Hydrazin	B
Sodium bisulfate	A

Name of substance	Resistance level at the temperature of 20 °C
Calcium bisulfate	B
Sodium bisulfite	A
Calcium bisulfite	A
Potassium bicarbonate	A
Sodium bicarbonate	A
Sodium thiosulfite	B
Ammonium hydroxide	A
Barium hydroxide	A
Potassium hydroxide	B
Magnesium hydroxide	A
Sodium hydroxide, 20–80%	A
Calcium hydroxide	A
Chlorine (dry and wet)	C
Chlorobenzene	C
Chlorobromomethane	C
Potassium chlorate	B
Sodium chlorate	B
Ammonium chloride	B
Barium chloride	A
Tin(II) chloride	B
Tin(IV) chloride	B
Potassium chloride	A
Aluminum chloride, 100%	B
Magnesium chloride	A
Lithium chloride	A
Copper(II) chloride	A
Nickel(II) chloride	A
Sulfur chloride	B
Sodium chloride	A
Carbon tetrachloride	C
Calcium chloride	A
Zinc chloride	B
Ferric chloride	B
Sodium hypochlorite	B
Calcium hypochlorite	B
Chloroform	C
Chlorinated water	C
Isooctane	C
Isopropyl acetate	C
Isopropyl alcohol	A
Isopropyl ether	C
Isobutyl alcohol	A
Rosin	A
Coffee	A
Coconut oil	A
Creosote oil	C
Cresols	C
Sodium silicate	A
Corn oil	A
Copper cyanide	A
Mercury cyanide	A

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Name of substance	Resistance level at the temperature of 20 °C
Sodium cyanide	A
Arsenic acid	A
Benzenesulfonic acid	C
Benzoic acid	B
Boric acid	A
Hydrobromic acid	C
Citric acid	A
Nitric acid, <10%	B
Nitric acid, 20–100%	C
Hydrofluoric acid, 20–100%	C
Phosphoric acid, <40%	B
Phosphoric acid, >40 %	C
Crude phosphoric acid	C
Phthalic acid	B
Gallic acid	C
Glycolic acid	A
Hexafluorosilicic acid, 20–100%	C
Perchloric acid	C
Chloroacetic acid	C
Hydrochloric acid, 20–100%	C
Chlorsulfonic acid	C
Chromic acid, 5–50%	B
Malic acid	B
Carbolic acid	C
Cresylic acid	C
Cyanic acid	A
Hydrocyanic acid	B
Linoleic acid	B
Butyric acid	C
Copper acid	A
Lactic acid	A
Formic acid	B
Acetic acid, 20–100%	B
Oleic acid	C
Palmitic acid	C
Picric acid	C
Sulfuric acid, <10%	B
Sulfuric acid, 10–95%	C
Sulfurous acid	C
Stearic acid	B
Oxalic acid	B
Tannic acid	B
Trichloroacetic acid	C
Carbonic acid	A
Tartaric acid	A
Latex	A
Ligroin	C
Linseed oil	A
Aqua regia	C
Butter	B
Fatty acids	B

Name of substance	Resistance level at the temperature of 20 °C
Honey	A
Melamine	B
Sodium metaphosphate	A
Methane	C
Methanol	A
Methoxyethanol	C
Methyl acetate	C
Methyl acrylate	C
Methyl alcohol, 10%	A
Methyl butyl ketone	C
Methyl ethyl ketone	C
Methyl ethyl ketone peroxide	B
Methyl chloride	C
Methyl isobutyl ketone	C
Methyl isopropyl ketone	B
Methyl methacrylate	B
Mineral oil	B
Mineral springs	C
Milk	A
Urea	B
Monoethanolamine	B
Seawater	A
Diesel fuel	C
Soap solutions	A
Naphtha	C
Naphthalene	C
Nitrobenzene	C
Nitromethane	C
Vinegar	A
Lead acetate	A
Sodium acetate	C
Octyl alcohol	B
Cottonseed oil	A
Cod liver oil	B
Oleum, 25–100%	C
Olive oil	C
Sulfur trioxide	B
Sulfur dioxide	B
Carbon monoxide	A
Carbon dioxide	B
Calcium oxide	A
Ozone	A
Pentane	C
Sodium perborate	B
Perchloroethylene	C
Sodium peroxide	C
Hydrogen peroxide,10%	A
Hydrogen peroxide, 30–100%	B
Ammonium persulfate	C
Kerosene	C
Beer	A

Name of substance	Resistance level at the temperature of 20 °C
Buttermilk	A
Sodium polyphosphate	C
Orange oil	C
Propane (liquefied)	C
Propyl alcohol	A
Propylene	C
Propylene glycol	A
Pyridine	C
Castor oil	A
Crude oil	C
Potassium cyanide solution	A
Rum	A
Rapeseed oil	C
Sugar beet syrup	A
Lard	B
Silicone	B
Silicone oil	B
Ammonium sulfate	A
Barium sulfate	A
Potassium sulfate	A
Aluminum sulfate	A
Aluminum sulfate, 10–100%	A
Manganese(II) sulfate	A
Copper sulfate, 5%	A
Copper sulfate, >5 %	A
Nickel sulfate	A
Sodium sulfate	A
Zinc sulfate	A
Iron(III) sulfate	B
Hydrogen sulfide	B
Sodium sulfite	A
Water and glycol mixture	B
Soybean oil	A
Saturated saline solution	A
Stoddard solvent	C
Styrene	C
Lead sulfamate	B
Barium sulfide	A
Potassium sulfide	A
Sodium sulfide	A
Turpentine	C
Sodium tetraborate	A
Tetrahydrofuran	C
Tetrachloroethane	C
Tetrachloroethylene	C
Toluene	C
Heating oil	B
Transformer oil	B
Trichloroethane	C
Trichloroethylene	C
Tricresyl phosphate	B

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Name of substance	Resistance level at the temperature of 20 °C
Cane juice	A
Fat	C
Turbine oil	C
Ammonium carbonate	B
Sodium carbonate	A
Calcium carbonate	A
Petroleum jelly	C
Vinyl acetate	C
Fresh water	B
Distilled water	B
Acidic mine water	B
Brine	B
Hydrogen gas	B
Photographic developers	B
Whisky	A
Xylene	C
Vegetable juice	B
Natural gas	A
Gelatin	A

Notice:

Material: Addition-cured silicone elastomer resistant to alkaline substances and low-concentration acids, plastic greases, selected oils, and hot water.
The material is characterized by high thermal resistance ranging from -100 °C to +320 °C.
For a preliminary assessment of MLP's suitability for specific applications, a chemical resistance chart is available.
If the substance you are working with is not listed, we will be happy to send you a sample of the material upon request for direct resistance testing.
Substances marked with the letter B in the chart already cause some degree of degradation to the material.
The extent of degradation depends on the duration of exposure, specific conditions, type, concentration, and temperature of the substance.

Due to the large number of chemical substances and the varying conditions of their application and other influencing factors, the chemical resistance chart is intended for guidance only.
MLP is designed for rapid response to emergency leak situations and is not intended for permanent containment of chemical substances.
To make a valid determination of the chemical resistance level for a specific chemical, we always recommend conducting individual resistance tests. In view of the above, neither the manufacturer nor the distributor assumes any responsibility for potential damages arising from reliance solely on this list without conclusive evaluation and testing by the user.