

Chemical Resistance For LG XPRO geo 401E

Ratings indicated the status of visual
And physical examination of samples
after immersion contact with certain
test fluid for 28days at room temperature.

**Total Chemical List : 295
(LG's Lab Test Results)**

A : Fluid has little or no effect
B : Fluid has minor or moderate effect
C : Fluid has severe effect
T : No data – Likely to be acceptable
X : No data – not likely to be acceptable

Chemicals	Rating
Acids (General)	A
Crude Oil	A
Diesel Fuel	A
Gasoline	B
Jet Fuels	A
Kerosene	A
Methanol	A
Motor Oil	A
Naphtha	A
Saltwater 180F	A
Vegetable Oil	A

The data provided on this sheet represents typical physical properties and is intended to serve only as a guide.

No liability will be accepted as a consequence of the publication of this data sheet.

All information on this data sheet is based upon laboratory tests.

Chemical Resistance (1/8)

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Chemical	Rating
Acetic Acid(5%)	B
Acetic Acid(50%)H	C
Acetylene	T
Adipic Acid	T
Alcohols:Amyl	A
Alcohols:Butyl	A
Alcohols:Hexyl	A
Alcohols:Isobutyl	A
Alcohols:Isopropyl	A
Alcohols:Methyl	A
Alcohols:Propyl	A
Aluminum Chloride	A
Aluminum Chloride 20%	A
Aluminum Fluoride	A
Aluminum Hydroxide	A
Aluminum Potassium Sulfate 10%	A
Aluminum Potassium Sulfate 100%	A
Aluminum Sulfate	A
Ammonia, anhydrous	A
Ammonia, liquid	T
Ammonium Acetate	A

Chemical	Rating
Ammonium Bifluoride	A
Ammonium Carbonate	A
Ammonium Chloride	A
Ammonium Hydroxide	A
Ammonium Nitrate	A
Ammonium Oxalate	A
Ammonium Persulfate	A
Ammonium Phosphate, Dibasic	A
Ammonium Phosphate, Monobasic	A
Ammonium Phosphate, Tribasic	A
Ammonium Sulfate	A
Ammonium Sulfite	A
Amyl Alcohol	A
Antifreeze	A
Antimony Trichloride	A
Arsenic Acid	A
Arsenic Salts	T
Asphalt	T
Barium Carbonate	A
Barium Chloride	A
Barium Hydroxide	A

Chemical Resistance (2/8)

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Chemical	Rating
Barium Nitrate	A
Barium Sulfide	A
Beer	A
Beet Sugar Liquids	T
Benzene	X
Benzene Sulfonic Acid	T
Benzoic Acid	A
Bleaching Liquors	T
Borax (Sodium Borate)	A
Boric Acid	A
Buttermilk	T
Butyl Ether	T
Butylene	T
Calcium Bisulfide	A
Calcium Carbonate	A
Calcium Chloride Solution	A
Calcium Nitrate	A
Cane Juice	T

Chemical	Rating
Carbon Dioxide (dry)	T
Carbon Dioxide (wet)	T
Carbon Monoxide	T
Carbonated Water	A
Carbonic Acid	A
Catsup	T
Chloric Acid	A
Chlorine Water	T
Chromic Acid 10%	T
Chromic Acid 30%	T
Chromic Acid 5%	T
Chromium Salts	T
Cider	A
Cloroxr (Bleach)	T
Copper Chloride	A
Copper Cyanide	A
Copper Fluoborate	T
Copper Nitrate	A

Chemical Resistance (3/8)

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Chemical	Rating
Copper Sulfate >5%	T
Copper Sulfate 5%	T
Corn oil	A
Cupric Acid	T
Detergents	A
Diesel Fuel	A
Epsom Salts (Magnesium Sulfate)	A
Ethane	T
Ethylene glycol	A
Fatty Acids	T
Ferric Chloride	A
Ferric Nitrate	A
Ferric Sulfate	A
Ferrous Chloride	A
Ferrous Sulfate	A
Fluoboric Acid	T
Formaldehyde 100%	T
Formaldehyde 40%	T
Formic Acid	T
Freon 12	T

Chemical	Rating
Freon 22	T
Freon 11	T
Fruit Juice	A
Fuel Oils	T
Furan Resin	T
Gasoline	B
Glucose	A
Glycerin	A
Grape Juice	A
Grease	T
Honey	T
Hydraulic Fluid-Petroleum Base	A
Hydraulic Oil (Petro)	T
Hydraulic Oil (Synthetic)	T
Hydrobromic Acid 100%	T
Hydrocarbon Type II	C
Hydrochloric acid	A
Hydrochloric Acid 20%	A
Hydrochloric Acid, Dry Gas	T
Hydrocyanic Acid (Gas 10%)	T

Chemical Resistance (4/8)

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Chemical	Rating
Hydrofluoric acid 50%	A
Hydrofluosilicic Acid 20%	A
Hydrogen Gas	T
Hydrogen Peroxide 10%	T
Hydrogen Peroxide 100%	T
Hydrogen Peroxide 30%	T
Hydrogen Peroxide 50%	T
Hydrogen Sulfide (dry)	A
Iodine	A
Iodine (in alcohol)	T
Iodoform	T
Isooctane	T
Isopropyl Alcohol	A
Isotane	T
Ivory Soap	A
Jet A	A
Kerosene	A
Lard	T
Lead Nitrate	A
Linoleic Acid	T

Chemical	Rating
Lye: NaOH Sodium Hydroxide	A
Magnesium Bisulfate	T
Magnesium Chloride	A
Magnesium Hydroxide	A
Magnesium Nitrate	A
Magnesium Sulfate (Epsom Salts)	A
Maleic Acid	A
Malic Acid	T
Mercuric Chloride (dilute)	A
Mercuric Cyanide	T
Mercurous Nitrate	T
Mercury	T
Methanol (Methyl Alcohol)	A
Methyl Alcohol 10%	A
Methyl Butyl Ketone	X
Methyl Dichloride	T
Methyl Ethyl Ketone	X
Methyl Methacrylate	T
Milk	A
Mineral Spirits	T

Chemical Resistance (5/8)

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Chemical	Rating
Molasses	T
Naphtha	A
Natural Gas	T
Nickel Chloride	T
Nickel Nitrate	T
Nickel Sulfate	T
Nitric Acid (5-10%)	A
Nitric Acid (20%)	B
Nitrous Acid (50%)	C
Nitrous Oxide	T
Oils:Castor	A
Oils:Coconut	A
Oils:Cod Liver	T
Oils:Fuel (1, 2, 3, 5A, 5B, 6)	A
Oils:Hydraulic Oil (Petro)	T
Oils:Hydraulic Oil (Synthetic)	T
Oils:Linseed	T
Oils:Palm	T
Oils:Peanut	T
Oils:Sesame Seed	T

Chemical	Rating
Oils:Silicone	T
Oils:Soybean	T
Oils:Turbine	T
Pentane	T
Phenol	X
Phenol Formaldehyde	B
Phosphorus	T
Photographic Developer	T
Photographic Solutions	T
Phthalate Plastisizer	C
Plating Solutions, Antimony Plating 130	T
Plating Solutions, Arsenic Plating 110	T
Plating Solutions, Brass Plating: High-Speed Brass Bath 110	T
Plating Solutions, Brass Plating: Regular Brass Bath 100	T
Plating Solutions, Bronze Plating: Cu-Cd Bronze Bath R.T.	T
Plating Solutions, Bronze Plating: Cu-Zn Bronze Bath 100	T
Plating Solutions, Cadmium Plating: Cyanide Bath 90	T

Chemical Resistance (6/8)

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Chemical	Rating
Plating Solutions, Cadmium Plating: Fluoborate Bath 100	T
Plating Solutions, Chromium Plating: Barrel Chrome Bath 95	T
Plating Solutions, Chromium Plating: Black Chrome Bath 115	T
Plating Solutions, Chromium Plating: Chromic-Sulfuric Bath 130	T
Plating Solutions, Chromium Plating: Fluoride Bath 130	T
Plating Solutions, Chromium Plating: Fluosilicate Bath 95	T
Plating Solutions, Copper Plating (Acid): Copper Fluoborate Bath 120	T
Plating Solutions, Copper Plating (Acid): Copper Sulfate Bath R.T.	T
Plating Solutions, Copper Plating (Cyanide): Copper Strike Bath 120	T
Plating Solutions, Copper Plating (Misc): Copper (Electroless)	T

Chemical	Rating
Plating Solutions, Copper Plating (Misc): Copper Pyrophosphate	T
Plating Solutions, Gold Plating: Acid 75	T
Plating Solutions, Gold Plating: Neutral 75	T
Plating Solutions, Indium Sulfamate Plating R.T.	T
Plating Solutions, Iron Plating: Sulfamate 140	T
Plating Solutions, Lead Fluoborate Plating	T
Plating Solutions, Nickel Plating: Fluoborate 100-170	T
Plating Solutions, Nickel Plating: Sulfamate 100-140	T
Plating Solutions, Rhodium Plating 120	T
Plating Solutions, Silver Plating 80-120	T

Chemical Resistance (7/8)

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Chemical	Rating
Plating Solutions, Tin-Fluoborate Plating 100	T
Plating Solutions, Tin-Lead Plating 100	T
Plating Solutions, Zinc Plating: Acid Chloride 140	T
Plating Solutions, Zinc Plating: Acid Fluoborate Bath R.T.	T
Plating Solutions, Zinc Plating: Alkaline Cyanide Bath R.T.	T
Potash (Potassium Carbonate)	A
Potassium Bicarbonate	A
Potassium Bromide	A
Potassium Chlorate	A
Potassium Chloride	A
Potassium Chromate	A
Potassium Cyanide Solutions	T
Potassium Dichromate	A

Chemical	Rating
Potassium Ferricyanide	A
Potassium Ferrocyanide (3H ₂ O)	A
Potassium Hydroxide (Caustic Potash)	A
Potassium Iodide	A
Potassium Nitrate	A
Potassium Permanganate	A
Potassium sulfate	A
Propane (liquefied)	T
Pyrogallic Acid	A
Rum	T
Salt Brine (NaCl saturated)	T
Salt water	A
Sea water	A
Silicone	T
Silver Nitrate	T
Soap Solutions	A
Soda Ash (see Sodium Carbonate)	A
Sodium Acetate Solutions	A
Sodium Bicarbonate	A
Sodium Bisulfate	A

Chemical Resistance (8/8)

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Chemical	Rating
Sodium Borate (Borax)	T
Sodium Carbonate	A
Sodium Chlorate	A
Sodium Chloride	A
Sodium Cyanide	T
Sodium Ferrocyanide	T
Sodium Fluoride	A
Sodium Hydroxide	A
Sodium Hypochlorite (<20%)	A
Sodium Metaphosphate	T
Sodium Metasilicate	T
Sodium Nitrate	T
Sodium Perborate	T
Sodium Polyphosphate	T
Sodium Silicate	A
Sodium Sulfate	A
Sodium Sulfide	A
Sodium Sulfite	A
Sodium Tetraborate	T
Sodium Thiosulfate (hypo)	A
Stannic Chloride	T
Stannous Chloride	T
Starch	A

Chemical	Rating
Sulfur Dioxide	T
Sulfur Dioxide (dry)	T
Sulfur Trioxide	T
Sulfur Trioxide (dry)	T
Sulfuric Acid (50%)	A
Sulfurous Acid	T
Tannic Acid (50%)	A
Tanning Liquors	T
Tartaric Acid	A
Tin Salts	T
Toluene	C
Tomato Juice	T
Trisodium Phosphate	A
Uric Acid	A
Urine	T
Water, Deionized	A
Water, Distilled	A
Whiskey & Wines	T
White Liquor (Pulp Mill)	T
White Water (Paper Mill)	T
Zinc Chloride	A
Zinc Sulfate	A
Zylene	X