

Chemical resistance of ECOPHIT® foil and sheets

This technical information is valid for ECOPHIT flexible graphite foil and sheets, including ECOPHIT L (lightweight graphite board), which are

- manufactured from expanded natural graphite
- free from additives, e.g. PCM's (Phase Change Material).

Chemical properties

Graphite is insoluble and infusible. It counts as one of the most chemically resistant materials.

Organic chemistry

Graphite is resistant to virtually all media in the field of organic chemistry. These typically include, for example, the intermediate and/or final products of the following industries:

- · Petrochemistry
- Coal conversion
- Synthetics
- Varnish and paint
- Cosmetics
- Food and stimulants industry
- Photochemicals
- · Cooling agents
- Anti-freezing agents

Inorganic chemistry

Graphite is resistant to almost all inorganic media as well, for example to many acids and bases, as well as probably all aqueous salt solutions and to most technical gases.

The following media resistance list shall provide an overview. For media which are not included it is generally advised to confer with SGL Carbon.

The resistance data apply to operating temperatures of the medium mentioned which are known to us. However, for media being operated at above 400 °C or 752 °F, we generally ask for consultation.



↑ ECOPHIT L lightweight graphite board

The information is based on experience, laboratory tests and is partly correlated. Therefore, warranty may not be covered in individual cases. It should be noted, that mixtures can be partly more critical than pure media or vice versa.

Four different cases can be distinguished:

- 1. resistant
- 2. not resistant
- 3. limited resistance
- 4. insufficient data -

The third case depends on the stability of operation, operating temperatures or the concentration. It is advised to confer with SGL Carbon.

Medium	ECOPHIT flexible graphite
A	
Abietic acid	•
Accumulator acid	200°C/392°F: ●
Acetal	•
Acetaldehyde	•
Acetamide	•
Acetanilide (= N-phenylacetamine)	•
Acetic acid, aqueous solution 50 %	•
Acetic acid 100% (= glacial acetic acid)	•
Acetic acid gas	•
Acetic anhydride	•
Aceto acetic ester	•
Acetoin (= 3-hydroxid-2-butanone)	•
Acetone	•
Acetone cyanohydrin	
[= 2-hydroxy-2-methylpropionitrile = 2-cyanopropane-2-ol]	•
Acetonitrile	•
Acetophenone	•
Acetylacetone	•
Acetyl chloride	•
Acetylene (= ethine = ethyne)	•
Acetylene tetrachloride	•
Acrolein (= properal)	•
Acrylamide, aqueous solution	•
Acrylic acid ethyl ester	•
Acrylic acid, anhydrous	•
Acrylonitrile	•
adipic acid	•
Adipic ester	•
Adiponitrile	•
Air	400°C/752°F: ●
Alcohol and alcoholic drinks	•
Alcohols	•
Aldehyde	•
Alkylamine	•
Alkylphenol	•
Alkylsulfonates	•
Allyl acetate [= propenyl-acetate]	•
Allyl alcohol	
	•
Allyl bromide	•
Allyl chloride	•
Allyl chloroformate	•
Allyl ether	•
Allyl glycidyl ether	•
Allyl iodide	•
Allyl isothiocyanate	•
Allylamine	•
Allyltrichlorosilane	•
Alpha-methylstyrene	•
Alpha-pinene	•
Alum (= aluminium potassium sulfate)	•
Aluminium alkyl halides	•
Aluminium alkyl hydrides	•
Aluminium alkyls	•
Aluminium chlorate	20°C/68°F: ●
Aluminium chloride	20 07 00 1.0
Aluminium fluoride	•
Aluminium nitrate	
	<u> </u>
Aluminium phosphate	•

Medium	ECOPHIT flexible graphite
Aluminium sulfate, aqueous solution > 10 %	•
Aluminium sulfate, aqueous solution 10 %	•
Aluminium triethyl	•
Amidosulfuric acid	•
Amine	•
Aminophenols	•
Ammonia water (= ammonium hydroxide)	•
Ammonia, liquid	•
Ammonia, gaseous	•
Ammonium bifluoride, not saturated	•
Ammonium bifluoride, not saturated	•
Ammonium carbonate	•
Ammonium chloride (= salmiac)	•
Ammonium fluoride, anhydrous	•
Ammonium fluoride, hydrous	•
Ammonium nitrate	<u> </u>
Ammonium nitrite, aqueous solution	•
Ammonium persulfate, aqueous solution	•
Ammonium phosphate	•
Ammonium phosphate, aqueous solution	•
Ammonium sulfate	•
Ammonium sulfide, aqueous solution	•
Ammonium sulfite, aqueous solution > 50 %	•
Ammonium sulfite, aqueous solution 50 %	•
Amyl acetate	•
Amyl alcohol	•
Amyl mercaptan	•
Amylamine	•
Aniline (= aminobenzene)	•
Anisidine (= methoxyaniline)	•
Anisole	•
Anthranilic acid	•
Anthraguinone	•
Antimony butter, aqueous solution	
[= antimony chloride, aqueous solution]	•
Antimony trioxide	•
Argon	•
Arsenic acid	•
Arsenic chloride	•
Arsenic trioxide	•
Asphalt	•
<u> </u>	
B Parium chlorida paturated	
Barium chloride, saturated	•
Barium hydroxide	•
Barium salt, aqueous solution	•
Beer	•
Benzalacetone	•
Benzaldehyde	•
Benzenesulfonic acid	•
Benzenesulfonyl chloride	•
Benzine, gasoline	•
Benzoic acid	•
Benzol	•
Benzoquinone	•
Benzotriazole	•
Benzyl alcohol	•
Benzylamines	•
Benzyl benzoate	•
Benzyl bromide	•
	

Medium	ECOPHIT flexible graphite
Benzyl chloride, anhydrous	Ecol III Noxible graphics
Benzyl chloride, hydrous	•
Benzyl chloroformate	•
Benzyl iodide	•
Benzylphenol	•
Bio-diesel	•
Bio-ethanol	•
Bisphenol A	•
Bitumen	•
Black liquor (sulfate)	•
Black liquor (sulfide)	•
Blood	•
Borax, aqueous solution	
[= sodium tetraborate decahydrate, aqueous solution]	•
Borax, melt (= sodium tetraborate, melt)	•
Boron trichloride	•
Brake fluids, glycolbased	•
Bromine trifluoride	
Bromine, liquid	
Bromotrifluoromethane	•
Butadiene	•
Butanal oxime	•
Butane	•
Butanedione	•
Butanethiol	•
Butanol (= butyl alcohol)	•
Butanone (= methyl ethyl ketone)	•
Butin	•
Butter	•
Buttermilk	•
Butyl acetate (= acetic acid butyl ester)	•
Butyl acrylate	•
Butyl chloride, anhydrous	•
Butyl chloride, hydrous	•
Butyl phosphine	•
Butyl vinyl ether	•
Butylamine	•
Butylbenzene	•
Butylcyclohexyl chloroformate	•
Butylphenol	•
Butyltoluene	•
Butyltrichlorosilane	•
Butyraldehyde (= butanal)	•
Butyric acid	•
n-Butyronitrile	•
C	
Calcium acetate, aqueous solution	•
Calcium bisulfite, aqueous solution	•
Calcium chloride	•
Calcium hydroxide, hydrous [= caustic lime = lime water = calcium oxide, aqueous]	•
Calcium hypochlorite	•
Calcium nitrate	
	<u> </u>
Calcium nitrate, aqueous solution	•
Calcium oxide	•
Calcium phosphate, aqueous solution	•
Calcium sulfate	•
Calcium sulfide, aqueous solution	•
Calcium sulfite, cold saturated	

Medium	ECOPHIT flexible graphite
Carbon dioxide	•
Carbon disulfide	•
Carbon monoxide, anhydrous	•
Carbon tetrachloride, anhydrous (= tetrachlorocarbon, anhydrous)	•
Carbon tetrachloride, hydrous (= tetrachlorocarbon, hydrous)	•
Cesium melt	-
2-Chlorallylsenfoel	•
Chlorhexidine	•
Chlorinated lime, anhydrous	•
Chlorinated lime, hydrous	•
Chlorine dioxide	
Chlorine trifluoride	
Chlorine water	
Chlorine, hydrous	
Chlorine, anhydrous	400°C/752°F: ●
Chloroacetic acid [= monochloroacetic acid]	.00 07 702 110
Chloroacetone	•
Chlorobenzene, anhydrous (= monochlorobenzene, anhydrous)	•
Chlorobenzene, hydrous (= monochlorobenzene, hydrous)	•
N-[4-Chlorobenzyl]cyclopentylamine	•
Chlorobutadiene (= chloroprene)	•
·	
2-Chloro-5-methylpyridine	•
Chloronitrobenzene (= nitrochlorobenzene)	•
Chlorophenol	•
Chlorosulfonic acid, aqueous solution 10 %	•
Chlorosulfonic acid 100 %	000000000
Chromic acid, aqueous solution 10 %	20°C/68°F: ●
Chromic acid, aqueous solution > 10 %	
Chroming solutions	
Chromium(III) potassium sulfate (= chrome alum)	
Citric acid, aqueous solution 25 %	•
Citric acid, aqueous solution > 25 %	•
Clophen	•
Cobalt chloride, aqueous solution	•
Cocoa butter	•
Cod liver	•
Coffee	•
Copper acetate	•
Copper carbonate	•
Copper chloride, aqueous solution	•
Copper cyanide, aqueous solution	•
Copper sulfate	•
Copper(II) nitrate, aqueous solution 50 %	•
Copper(II) nitrate, aqueous solution > 50 %	•
Creosol	•
Creosote	•
Cresol	•
Crude oil	•
Cryolite [= sodium fluoroaluminate]	•
Cumene (= isopropyl benzene)	•
Cyclohexane	•
Cyclohexanol	•
Cyclohexanone	•
·	
Cyclopentylamine	•
Cyclopropylamine	•
D. Doochydropophthologo	_
Decahydronaphthalene	•
Decane	•
Dextrin, aqueous solution	•

Medium	ECOPHIT flexible graphite
Diacetone alcohol	•
Dibenzyl ether	•
Dibutyl ether	•
N,N-Dibutyl-formamide	•
Dibutyl phthalate	•
Dibutylamine	•
Dichloro isopropyl ether	•
Dichloro hexylamine	•
Dichloroacetic acid methyl ester	•
Dichloroethene, anhydrous [= dichloroethylene, anhydrous = vinylidene dichloride, anhydrous]	•
Dichloroethene, hydrous (= dichloroethylene, hydrous = vinylidene dichloride, hydrous)	•
Dichloroethane, anhydrous (= ethylene chloride, anhydrous = ethylene dichloride, anhydrous)	•
Dichloroethane, hydrous (= ethylene chloride, hydrous = ethylene dichloride, hydrous)	•
Dichloromethane, anhydrous [= methylene chloride, anhydrous]	•
Dichloromethane, hydrous (= methylene chloride, hydrous)	•
Diesel oil, Diesel fuel	•
Diethyl ketone (= 3-pentanone)	•
Diethyl ether	•
Diethyl sebacate	•
Diethyl succinate	
•	•
Diethylene glycol	•
2,2-Difluoroethylamine (DFEA)	•
Difluoromethane	•
Diglycolic acid, aqueous solution	•
Dihydroxybenzene (= (p-)hydroquinone)	•
Diisobutyl ketone	•
Diisobutylene (= iso-octene)	•
Diisopropyl ketone	•
Dimethyl carbonate	•
Dimethyl malonate	•
Dimethyl phthalate	•
Dimethyl sulfate (DMS)	•
Dimethyl urea	•
Dimethylacetamide (DMAC)	•
Dimethylamine	•
Dimethylamino sulfochloride	•
Dimethylaniline	•
Dimethylformamide (DMF)	•
Dinitrogen monoxide (= laughing gas)	20°C/68°F: ●
Dioctyl phthalate (DOP)	•
Dioctyl sebacate	•
Dioxane	•
Dipentene (= limonene)	•
Diphenyl ether	•
Dipropyl ketone	•
Disulfur dichloride, anhydrous	•
Disulfur dichloride, hydrous	•
Dithiophosphoric acid	•
Dodecyl alcohol	•
E	
Epichlorohydrine Ethandiala (- manaethylana glysal - ethylana glysal - glysal)	•
Ethandiole [= monoethylene glycol = ethylene glycol = glycol]	•
Ethane	•
Ethanol (= ethyl alcohol)	•

Medium	ECOPHIT flexible graphite
Ethanolamine (= monoethanolamine = aminoethylethanolamine)	•
Ethyl acetate (= acetic acid ethyl ester)	•
Ethyl acrylate	•
Ethyl benzene	•
Ethyl chloride, anhydrous	•
Ethyl chloride, hydrous	•
Ethyl formate	•
Ethyl mercaptan	•
N-Ethylpropane-1-amine	•
Ethyl silicate	•
Ethylene (= ethene)	•
Ethylene chlorohydrin (= 2-chloroethanol)	•
Ethylene dibromide (= 1,2-dibromoethane)	•
Ethylene glycol	•
Ethylene oxide (EO)	•, only use products with BAM test report for EO.
Ethylenediamine (EDA)	•
Ethylhexanol	•
F	
Fat (mineral, vegetable, animal)	•
Fatty acid methyl ester	•
Fatty acids	•
Ferric chloride, ferric(III) chloride	•
Ferric[III] nitrate	<u> </u>
Ferric(III) sulfate, aqueous solution 10 %	•
Ferric[III] sulfate, aqueous solution > 10 %	•
Ferric(II) sulfate, aqueous solution	•
Ferric oxide (= iron(III) oxide)	•
Ferric boxide (= itoli(iii) boxide) Ferric phosphate	•
Firewater	•
Fluopyram (Pyridinyl-ethylbenzamide)	•
Fluorine dioxide	
Fluorine, gaseous	i
Fluorine, liquid	i
Fluorobenzene	•
Fluoropyrazole acid fluoride	•
Formaldehyde (= methanal = methyl aldehyde)	•
Formalin	•
Formamide	•
Formic acid	•
Fruit juices and fruit acids	•
	•
Furan (= furfuran) Furfuryl alcohol	•
G	•
Gallic acid, aqueous solution [= trihydroxybenzoic acid, aqueous solution]	
<u> </u>	•
Gelatin, aqueous solution Glucose (- daytrose)	•
Glucose [= dextrose] Glycerol [= propanetriol]	•
<u> </u>	
Glycerol triacetate (= triacetin)	•
Glycolic acid Grain algebra	•
Gran liquer	•
Green liquor	•
H Hart continue!	
Heat carrier oil	•
Helium	•
Heptane	•
Heptanone Lavablasabutadiana aphydraus	•
Hexachlorobutadiene, anhydrous	•

[●] resistant; ■ not resistant; ▲ limited resistance; – insufficient data; p.corr = pitting corrosion

Medium	ECOPHIT flexible graphite
Hexachlorobutadiene, hydrous	•
Hexachlorocyclohexane [= lindane]	•
Hexafluorosilicic acid, not containing HF	
[= fluorosilicic acid, not containing HF]	•
Hexafluorosilicic acid, containing HF	
[= fluorosilicic acid, containing HF]	
Hexamethylene-1,6-diisocyanate [HDI]	
Hexamethylenediamine (HMDA)	
Hexamethylenetetramine (= urotropine)	
Hexane	
Hexanetriol	
Hexyl alcohol	
Hexyl aniline	
Hydraulic oil	
Hydrazine	
Hydrazine hydrate	
Hydrazine sulfate, aqueous solution 10 %	
Hydrazine sulfate, aqueous solution > 10 %	
Hydrazone ester	•
Hydrazone	•
Hydrazide	•
Hydrocarbons	•
Hydrochloric acid, aqueous solution	•
Hydrochloric acid, gaseous (= hydrogen chloride, gaseous)	•
Hydrochlorofluorocarbons (CFC), anhydrous	•
Hydrochlorofluorocarbons (CFC), hydrous	•
Hydrocyanic acid	•
Hydrofluoric acid, anhydrous	•
Hydrofluoric acid, aqueous solution 40 %	
or aqueous solution 60 %	•
Hydrofluorocarbons, anhydrous	•
Hydrofluorocarbons, hydrous	•
Hydrofluorosilicic acid	•
Hydrogen	•
Hydrogen bromide	•
Hydrogen peroxide	, only use high-purity graphite in Z-quality, as impurities
[= hydrogen superoxide]	reduce the content of hydrogen peroxide.
Hydrogen sulfide, aqueous solution 4%	•
Hydrogen sulfide, aqueous solution > 4 %	•
Hydroquinone (= p-dihydroxybenzene)	•
Hydroxylamine sulfate, aqueous solution 10 %	•
Hydroxylamine sulfate, aqueous solution > 10 %	•
C5-Hydroxyester	•
C6-Hydroxyester	•
1	_
lodine, anhydrous	
lodine, hydrous	•
lodine tincture	•
Isobutyl alcohol	•
Isocyanates, aliphatic	•
Isocyanates, aromatic	•
Isododecane	•
Isooctane	•
Isophorone diamine	•
Isophorone diisocyanate (IPDI)	•
Isoprene	•
Isopropanol (= isopropyl alcohol)	•
Isopropyl acetate	•
Isopropyl ether	•

Medium	ECOPHIT flexible graphite
N-Isopropyl-p-fluoroaniline	•
K	
Kerosene	•
Ketone	•
L	
Lactam	•
Lactic acid	•
Lauryl alcohol	•
Lead acetate	•
Lead arsenate	•
Lead nitrate, aqueous solution	•
Lithium bromide	•
Lithium chloride, aqueous solution	•
Lithium melt	
Lysol	•
<u>M</u>	
Magnesium carbonate	•
Magnesium chloride, aqueous solution 30 %	•
Magnesium chloride, aqueous solution > 30 %	•
Magnesium hydroxide	•
Magnesium sulfate (= epsom salt)	•
Maleic acid	•
Maleic acid anhydride (MSA)	•
Malic acid, aqueous solution 50 %	•
Malic acid, aqueous solution > 50 %	•
Mercury	•
Mercury chloride, aqueous solution	•
Mercury cyanide	•
Methacrylic acid methyl ester	•
Methane	•
Methanol (= methyl alcohol)	•
Methyl acetate	•
Methyl bromide	•
Methyl butyl ketone	•
Methyl chloride, anhydrous (= chloromethane,	
anhydrous = monochloromethane, anhydrous)	•
Methyl chloride, hydrous (= chloromethane,	
hydrous = monochloromethane, hydrous)	
Methyl ether	•
Methyl formate	•
	•
Methyl glycol acetate	
Methyl isobutyl ketone	•
Methyl isopropyl ketone	•
Methyl methacrylate	•
Methyl oleate	•
Methyl sulfuric acid, aqueous solution	•
Methylamine	•
Methylamine, aqueous solution	•
Methylcyclohexane (MCH)	•
Methylcyclohexanol	•
Methylcyclopentane	•
Methyl-tert-butylether (MTBE)	•
Milk	•
Mine gas	•
Mineral oil	•
Mineral water	•
Molasses	•
Mono bromobenzene, anhydrous	•
Mono bromobenzene, hydrous	•

Modium	ECODULT florible graphite
Medium Morpholine	ECOPHIT flexible graphite
N	<u></u>
Naphthalene	
Naphtha	
Natural gas	
Neon	
Nickel acetate, aqueous solution	
Nickel chloride	
Nickel nitrate, aqueous solution	
Nickel sulfate, aqueous solution	
Nitric acid, aqueous solution 10 %	20°C/68°F: ●
Nitric acid, aqueous solution 37%	
Nitric acid, aqueous solution 65%	
Nitric acid fuming	
Nitro thinner	
Nitrobenzene	
Nitroethane	
Nitrogen	•
Nitrogen oxides, hydrous	
[= nitrous fumes, hydrous = NOx, hydrous]	
Nitrogen oxides, anhydrous	400°C/752°F: ●,
[= nitrous fumes, anhydrous = NOx, anhydrous]	but please always ask for advice.
Nitrogen tetroxide	
Nitrohydrochloric acid	
Nitromethane	
Nitropropane	
Nitrosulfuric acid	
Nitrotoluene	•
Nonane	•
Norbornadiene (= bicycloheptadiene)	•
0	
Octadiene	•
Octane	•
Octanol (= octane alcohol)	•
Octyl cresol	•
Oil (mineral, vegetable, animal)	•
Oleic acid	•
Oleum (= sulfur trioxide dissolved in sulfuric acid)	
Orthoboric acid	•
Oxalic acid, aqueous solution 10 %	•
0xalic acid, aqueous solution > 10 %	•
	250°C / 482°F: ●,
	SGL Carbon technical information about temperature resistance
Oxygen	and BAM test report needs to be considered.
	100°C/212°F: ●,
	for higher temperatures please refer to our technical information
Ozone or ozone-air-mixture	about temperature resistance and ask for advice.
P	
Palmitic acid	•
Paraffin	•
Penflufen (Pyrazol-4-carbonicacid amide)	•
Pentachlorophenol	•
Pentafluoroethane	•
1,5-Pentamethylen-diisocyanate (PDI)	•
Pentane	<u> </u>
Pentene	<u> </u>
Perchloric acid	, explosion danger when in contact with carbon materials.
Petroleum	<u> </u>
Petroleum ether	

Medium	ECOPHIT flexible graphite
Phenol (= carbolic acid)	200111111000000000000000000000000000000
Phenyl benzene	•
Phenylethyl ether	•
Phenylhydrazine	•
Phenyl isocyanate (PIC)	•
Phosgene, anhydrous	•
Phosgene, hydrous	•
Phosphoric acid, aqueous solution > 20 %	•
Phosphoric acid, aqueous solution 20%	•
Phosphoric acid, impure	•
Phosphorus oxychloride	•
Phosphorus trichloride	•
Phthalic acid	•
	•
Phthalic acid anhydride (PSA)	
Picric acid, aqueous solution	•
Piperidine Polarita de la Constantia de	•
Polyethersulfone	•
Polyethylene glycol 400	•
Potassium acetate	•
Potassium bifluoride, saturated	•
Potassium borate, aqueous solution	•
Potassium bromate, aqueous solution	
Potassium bromide, aqueous solution	•
Potassium carbonate (= potash)	•
Potassium chlorate, aqueous solution	20°C/68°F: ●
Potassium chloride	•
Potassium chromate	A
Potassium cyanate	•
Potassium cyanide (= cyan potassium)	•
Potassium fluoride, aqueous solution 25 %	•
Potassium formate	•
Potassium hexacyanoferrate III	•
Potassium hydroxide, solid	•
Potassium hydroxide, aqueous solution	•
Potassium hydroxide, melt	_
Potassium hypochloride	•
Potassium hypochlorite	•
Potassium iodide	
Potassium melt	350°C/662°F: ●
Potassium nitrate, aqueous solution	000 07 002 110
Potassium nitrate, melt [= saltpeter, melt]	
Potassium oxalate	-
Potassium permanganate	20°C/68°F: ●
Potassium silicate (= water glass)	20 0700 1.
Potassium sulfate, aqueous solution	•
Printer's acetate	•
Propage (propag	•
Propanol (= propyl alcohol)	•
Propene (= propylene)	•
Propionic acid Propionic acid	•
Propyl acetate	•
Propyl nitrate	•
Propylamine	•
Propylene	•
Propylene glycol	•
Propylene oxide (P0)	, only use products with BAM test report for PO.
Pyridine	•
Pyrrole	•

Medium	ECOPHIT flexible graphite
<u> </u>	
Sal volatile, cold saturated	
Salicylic acid	
Salt water (= seawater)	•
Silicone greases, silicone oils	
Silver nitrate, aqueous solution 10 %	
Silver nitrate, aqueous solution > 10 %	
Silver nitrate, melt	350 °C / 662 °F:
Soap	
Sodium acetate	
Sodium aluminate	
Sodium ammonium hydrogen phosphate	
Sodium benzoate, aqueous solution	
Sodium borate, aqueous solution	
Sodium carbonate (= soda)	
Sodium chlorate, aqueous solution 30 %	20°C/68°F:
Sodium chlorate, aqueous solution > 30 %	20°C/68°F:
Sodium chloride (= cooking salt)	
Sodium chlorite, aqueous solution	
Sodium cyanide	
Sodium fluoride, aqueous solution 5 %	
Sodium fluoride, aqueous solution > 5%	
Sodium hydrogen carbonate (= sodium bicarbonate)	
Sodium hydrogen phosphate	
Sodium hydrogen sulfate (= sodium bisulfate)	
Sodium hydrogen sulfate, aqueous solution 10 % [= sodium bisulfate, aqueous solution 10 %]	
Sodium hydrogen sulfate, aqueous solution > 10 % [= sodium bisulfate > 10 %]	
Sodium hydrogen sulfite, aqueous solution > 50 %, [= sodium bisulfite, aqueous solution > 50 %]	
Sodium hydrogen sulfite, aqueous solution 50 %	
[= sodium bisulfite, aqueous solution 50%]	
Sodium hydrogen sulfite (= sodium bisulfite)	
Sodium hydroxide, aqueous solution 25 %	
[= caustic soda 25% = caustic soda solution 25%]	
Sodium hydroxide, aqueous solution > 25 %	
[= caustic soda > 25 % = caustic soda solution > 25 %]	
Sodium hypochloride	
Sodium hypochlorite	
Sodium methoxide	
Sodium melt	350°C/662°F: €
Sodium nitrate, melt (= Chile saltpeter, melt)	ı
Sodium nitrate, aqueous solution	
[= Chile saltpeter, aqueous solution]	
Sodium nitrite, saturated	
Sodium peroxide (= sodium superoxide)	
Sodium phosphate, dibasic	
Sodium phosphate, tribasic	
Sodium silicate (= water glass)	
Sodium sulfate,	
[e.g. Glauber`s salt sodium sulfate decahydrate]	
Sodium sulfide	
Sodium sulfite, aqueous solution 50 %	
Sodium sulfite, aqueous solution > 50 %	
Sodium thiosulfate, aqueous solution 25%	
Sodium thiosulfate, aqueous solution > 25 %	
Spiroamines / Spiroxamine	
Spiroketals	

Medium	ECOPHIT flexible graphite
Starch, aqueous solution	•
Steam	•
Stearic acid	•
Styrene	•
Succinic acid	•
Succinic acid ester	•
Sugar, aqueous solution	•
Sulfur chloride, anhydrous	•
Sulfur chloride, hydrous	•
Sulfur dichloride, anhydrous	•
Sulfur dichloride, hydrous	•
Sulfur dioxide, anhydrous	•
Sulfur dioxide, hydrous	•
Sulfur hexafluoride	•
Sulfur trioxide	
Sulfur, anhydrous, liquid	•
Sulfur, hydrous	•
Sulfuric acid 98 %	
Sulfuric acid, aqueous solution < 70 %	-
Sulfuric acid, aqueous solution 70 - 85 %	150°C/302°F: ●
Sulfurous acid	
	100°C/212°F: ●
Tennis said (- tennis)	
Tannic acid (= tannin)	•
Tetrabromomethane	•
Tetrachloroethane, anhydrous	•
Tetrachloroethane, hydrous	•
Tetrachloroethylene, anhydrous [= perchloroethylene, anhydrous]	•
Tetrachloroethylene, hydrous (= perchloroethylene, hydrous)	•
Tetrafluoroboric acid, containing HF	•
Tetrafluoroboric acid, not containing HF	•
1,1,1,2-Tetrafluoroethane	•
	•
Tetrahydrofuran (TUT)	
Tetralia (12.2.4 tetrahydranaphthalana)	•
Tetralin [= 1,2,3,4-tetrahydronaphthalene]	
Thiacloprid	•
Thionyl chloride	•
Tin chloride, aqueous solution	•
Tin, liquid	•
Titanium tetrachloride	•
Toluene	•
Tributyl phosphate	•
Tricalcium phosphate	•
Trichloroacetic acid	•
Trichloroethane, anhydrous	•
Trichloroethane, hydrous	•
Trichloroethene, anhydrous (= trichloroethylene, anhydrous)	•
Trichloroethene, hydrous (= trichloroethylene, hydrous)	•
Trichloromethane, anhydrous (= chloroform, anhydrous)	•
Trichloromethane, hydrous [= chloroform, hydrous]	•
Trichlorosilane	•
Trichlorotrifluoroethane, anhydrous [= Freon 113, anhydrous]	
Trichlorotrifluoroethane, hydrous	
[= Freon 113, hydrous]	
Triethanolamine	
Triethylamine	•
Triethylenetetramine (TETA)	•
2-Trifluoromethyl-benzoylchloride	•
Z IIII. LOOTOITIOLITY I DETIZO Y LOTTUU II LOT	•

Medium	ECOPHIT flexible graphite
4-Trifluoromethoxy-phenylisocyanate (TFMOPI)	•
Trimethylaluminium	•
trioctyl phosphate	•
Trisodium phosphate	•
Turpentine	•
U	
Uranium hexafluoride	
Urea	•
V	
Vaseline	•
Vinegar, aqueous solution 50 % (= wine vinegar)	•
Vinyl chloride (= chloroethene)	•
W	
Water	•
Water, purified	•
Wine	•
X	
Xenon	•
Xylene	•
Υ	
Yeast, aqueous solution	•
Z	
Zinc acetate, aqueous solution	•
Zinc chloride, aqueous solution	•
Zinc cyanide	•
Zinc sulfate, aqueous solution	•
Zinc, liquid	•

● resistant; ■ not resistant; ▲ limited resistance; – insufficient data; p.corr = pitting corrosion



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TIS ECOPHIT EG chemical resistance.01

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