

Lichtgitter GRP gratings are often used in industries which require the gratings to be resistant to corrosive elements. The medium and its concentration, temperature and the duration of exposure have a major influence on the resistance.

Chemical resistance table Lichtgitter GRP gratings (GRP-K/GRP-BK)

Chemical environment	Isophthalic resin % concentration	Isophthalic resin Temp °C	Vinyl ester resin % concentration	Vinyl ester resin Temp °C
Aluminium salts	All	70	All	90
Ammonium bicarbonate	15	50	All	50
Ammonium chloride	All	70	All	85
Ammonium nitrate	All	70	All	85
Acetone	N/R	N/R	100	25
Benzoic acid	All	65	All	90
Benzoin	N/R	N/R	100	60
Prussic acid/hydrocyanic acid	All	65	All	85
Lead acetate / sugar of lead	All	75	All	90
Lead chloride	All	60	All	90
Lead nitrate	All	65	All	90
Hydrobromic acid	50	50	50	50
Calcium salts	All	65	All	90
Calcium hypochlorite	All	65	All	85
Chlorine dioxide	N/R	N/R	All	60
Chlorine water	All	25	All	50
Chromic acid	10	60	10	85
Distilled water	100	75	100	90
Iron salts	100	65	100	85
Vinegar	100	75	100	90
Acetic acid	50	50	50	85
Ethyl acetate, ethyl ether	N/R	N/R	N/R	N/R
Ethyl alcohol/ethanol	50	25	50	30
Ferric salt, iron (III) salt	All	65	All	85
Glycerine	100	65	100	90
Carbamide, urea, carbonyl diamide	All	50	All	60
Heptane	100	40	100	50
Sal volatile/Ammonium carbonate	N/R	N/R	All	65
Lunar caustic/silver nitrate	100	65	100	85
Potash	All	65	All	85
Calcium nitrate	All	85	All	90
Calcium hydroxide	25	65	35	85
Carbon dioxide/Carbolic acid/coal gas	All	50	All	85
Copper cyanide	All	50	All	85
Cuprous salt	All	65	All	85
Magnesium salt	All	65	All	85
Maleic acid	100	65	100	85
Salt water	All	75	All	90
Lactic acid/hydroxypropionic acid	All	75	All	90
Sodium salt	All	25	All	40
Nickel salt	All	75	All	90
Perchloric acid	N/R	N/R	30	30
Phosphoric acid	100	50	100	90
Mercury chloride	100	65	100	85
Ammonium hydroxide	28	N/R	28	38
Mitric acid	20	25	20	40
Hydrochloric acid	37	25	37	35
Sulphuric acid	50	N/R	50	85
Sulphuric acid	25	25	25	90
Sodium hypochlorite	N/R	N/R	10	65
Styrol, styrene, phenylethylene	N/R*	N/R	N/R	N/R
Tetrachloromethane/carbon tetrachloride	100	25	100	60
Trisodium phosphate	N/R	N/R	All	65
Hypochlorous acid	20	30	20	65
Hydrogen peroxide, hydrogen superoxide	10	25	30	50
Tartaric acid	All	75	All	90
Zinc salt	100	65	100	85
Tin chloride	All	70	All	90
Citric acid	All	65	All	85

All = valid for all concentrations
N/R = not recommended

Note

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