

## Rilsan<sup>®</sup> coating resistance as a function of temperature Chemical Resistance

In general, Rilsan<sup>®</sup> coatings have good resistance to inorganic salts, alkalis, most solvents, and organic acids. Greater caution must be observed in applications involving inorganic acids, phenols and certain chlorinated solvents. In such cases, please contact Arkema technical staff for assessment, specifying the practical problem involved: e.g nature of metal to be protected and the temperature and chemical composition of the liquid.

Resistance (°C)	20	40	60	90
Inorganic bases ammonium hydroxide (concentrated) ammonia (liquid or gas) lime-wash potassium hydroxide (50%) sodium hydroxide (5%) sodium hydroxide (10%) sodium hydroxide (50%)	G G G G G G G	G G G L G L L	G P L L P	G P P
Inorganic acids chromic acid (10%) hydrochloric acid (1%) hydrochloric acid (10%) nitric acid (all concentrations) phosphoric acid (50%) sulphuric acid (1%) sulphuric acid (10%) sulphuric trioxide	P G P G G G L	P L P L L P	P P P P L P	Р Р Р Р Р
Inorganic salts alum aluminium sulphate ammonium nitrate ammonium sulphate chlorides (barium/ calcium /saturated sodium) calcium arsenate calcium sulphate copper sulphate diammonium phosphate magnesium chloride (50%) potassium ferrocyanide	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	G G G L G G L G G G G	G G G
potassium nitrate potassium sulphate sodium carbonate sodium silicate sodium sulphide trisodium phosphate	G <sup>1</sup> G G G	G <sup>1</sup> G G L G	P G G L G	P G P G

Condition after 18 months contact: G: Good - L: Limited - P: Poor

1: Slight yellowing - 2: Yellowing - 3: Swelling action





Resistance (°C)	20	40	60	90
Organic acids and anhydrides acetic acid acetic anhydride citric acid formic acid lactic acid oleic / stearic acid oxalic acid picric acid tartaric acid (saturated solution) uric acid	L L G P G G G L G G	РРСРССРСС	P P L P G G L P G G	P P L L P L L
Various organic compounds anethole carbon disulphide diacetone alcohol dimethyl formamide ethylene chlorhydrin ethylene oxide furfurol glucose tetraethyl lead tetrahydrofurane phenols	G G G G G G G G G G G G G G G G G G G	G <sup>3</sup> G P G G <sup>3</sup> G G P	L L G P	P P G
<b>Organic bases</b> aniline (pure) diethanolamine (20%) pyridine (pure) urea	L G L G	P G <sup>3</sup> P G	P G <sup>3</sup> P L	P L P L

Resistance (°C)	20	40	60	90
<b>Salts, esters, ethers</b> acetate esters (amyl, butyl, methyl) phosphate esters (dioctyl, tributyl,	G	G	G	L
tricesyl)	G G	G	G	L
diethyl ether dioctylphtalate fatty acid esters methyl sulfate	G G G	G G L	G G	L G
Alcohols benzyl alcohol butanol ethanol (pure) glycerin (pure) glycol methanol (pure)	L G <sup>3</sup> G G G <sup>3</sup>	P L G <sup>3</sup> G L	P P L G P	P P P
<b>Chlorinated solvents</b> carbon tetrachloride methyl bromide methyl chloride perchloroethylene trichloroethane trichloroethylene	P G G L G	P P G P L	L	
Aldehydes and ketones aldehydes (acetaldehyde / benzaldehyde / formaldehyde) acetone (pure) cyclohexanone methylethylketone (MEK)	G G G	L G L	P L P	Ρ
methylisobutylketone (MIBK)	G	G	L	Р

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