

## CHEMICAL RESISTANCE CHART - SUPER CHEMICAL TANKS

SUPER Chemical tanks are manufactured using selected grades of resins and are highly resistant to the most aggressive chemicals. However, the effect of chemicals on tanks are compounded in relation to extended exposure, elevated temperature and environmental stress. These factors have to be considered while selecting SUPER chemical tanks (LLDPE/MDPE).

The information provided in the chart given below is based on limited experience and data obtained from various sources. Customers are requested to consult us to obtain exact recommendation or they are advised to conduct their own experiments before finalisation.

The following legends should be followed under normal conditions :

- R - Resistant
- NR - Non-resistant
- - No test data is available
- VR - Variable resistance – SUPER chemical tanks have excellent “Environmental Stress Crack Resistance (ESCR)” and are not usually affected by stress cracking chemicals. But the exact conditions of usage have to be ascertained for final recommendation.

CHEMICAL	CONCENTRATION	TEMPERATURE	
		20°C	60°C
Acetaldehyde	40%	VR	NR
	100%	VR	NR
Acide acetic	100 Aq.	R	R
	60%	R	R
Acid adipic		R	-
Acid arsenic		R	VR
Acid benzoic		R	R
Acid boric		R	R
Acid carbonic		R	R
Acid hydrochloric	10% Aq.	R	R
	Conc.	R	R
Acid nitric	upto 30%	R	R
Acid sulphuric	10% Aq.	R	R
	60%	R	R
Barium carbonate		R	R
Barium chloride		R	R
Barium hydroxide		R	R
Barium sulphate		R	R
Barium sulphide		R	R
Beer		R	R
Benzaldehyde		NR	NR
Benzene		NR	NR
Bismuth carbonate		R	R
Borax		R	R
Calcium bisulphite		R	R
Calcium carbonate		R	R
Calcium chlorate		R	R
Calcium chloride	Aq. soln.	R	R
Calcium hydroxide		R	R
Calcium hypochlorite		R	R
Calcium nitrate		R	R
Calcium phosphate		R	R

CHEMICAL	CONCENTRATION	TEMPERATURE	
		20°C	60°C
Calcium sulphate		R	R
Camphor oil		VR	-
Detergents, synthetic (Normal user conditions)		R	R
Developers, photographic		R	R
Dextrin		R	R
Dextrose		R	R
Dibutyl phthalate		VR	VR
Dithiobenzene		NR	NR
Diethyl glycol		R	R
Diocetyl phthalate		VR	VR
Disodium phosphate		R	R
Emulsifiers	All Cone.	R	R
Emulsions, photographic		R	R
Ether		NR	NR
Ethyl acetate		VR	VR
Ethyl butyrate		VR	VR
Ethyl chloride		NR	NR
Ethyl formate		NR	NR
Ethylene chloride		NR	NR
Ethylene glycol		R	R
Ferric chloride		R	R
Ferric nitrate		R	R
Ferric sulphate		R	R
Ferrous ammonium citrate		R	R
Ferrous chloride		R	R
Ferrous sulphate		R	R
Fixing solution, photographic		R	R
Fluorine		VR	VR
Formaldehyde	40% Aq.	R	R
Fructose		R	R
Gin		R	R

CHEMICAL	CONCENTRATION	TEMPERATURE	
		20°C	60°C
Glucose		R	R
Glycerine		R	R
Glycol		R	R
Grape sugar, Sat, soln, alc.		R	R
Heptane		VR	VR
Hexadecanol		NR	NR
Hertiar hexanol		R	R
Hydrogen		R	R
Hydrogen bromide dry		R	R
Hydrogen chloride dry		R	R
Hydrogen peroxide	30%	R	R
Hydrogen phosphide		R	R
Hydrogen sulphide		R	R
Hydroquinone		R	R
Inks	soln.	R	R
Iodine soln.		VR	–
Lead acetate	sat. soln.	R	R
Lead nitrate		R	R
Lead tetra-ethyl		R	R
Linseed oil		VR	VR
Lube oil		NR	NR
Magnesium carbonate		R	R
Magnesium chloride		R	R
Magnesium hydroxide		R	R
Magnesium nitrate		R	R
Magnesium sulphate		R	R
Manganese sulphate		R	R
Mercuric chloride		R	R
Mercuric cyanide		R	R
Mercurous nitrate		R	R
Mercury		R	–
Naphtha		VR	NR
Naphthalene		VR	–
Nickel chloride		R	R
Nickel nitrate		R	R
Nickel sulphate		R	R
Nicotine		R	R
Nitrobenzene		NR	NR
Oxygen		R	–
Ozone		VR	NR
Paraffin		VR	NR
Petro		NR	NR

CHEMICAL	CONCENTRATION	TEMPERATURE	
		20°C	60°C
Petroleum ether		NR	NR
Phenol		NR	NR
Phosgene	Gas	R	NR
Phosphorous oxychloride		NR	NR
Phosphorous pentoxide		R	R
Phosphorous trichloride		R	R
Photographic developers		R	R
Photographic emulsions		R	R
Sea water		R	R
Silicone fluids		VR	NR
Silver cyanide		R	R
Silver nitrate		R	R
Soap solution		R	R
Sodium acetate	Sat. soln.	R	R
Sodium acid sulphate		R	R
Sodium aluminate		R	R
Sodium antimonate		R	R
Sodium benzoate		R	R
Tallow		R	R
Tanning extracts		R	R
Tetrahydrofuran		VR	NR
Tetrahydronaphthalene		NR	NR
Titanium trichloride		NR	NR
Toulene		VR	VR
Transformer oil		VR	NR
Trichloroethylene		NR	NR
Trichlorobenzene		NR	NR
Tricresyl phosphate		VR	NR
Urea		R	R
Urine		R	R
Vanilla extract		R	R
Vegetable oils		VR	NR
Vinegar		R	R
Water		R	R
Wetting agents	Normal dilutions	R	R
Whey		R	–
Wine & spirits		R	R
Xylene		VR	VR
Yeast		R	R
Zinc chloride		R	R
Zinc oxide		R	R
Zinc sulphate		R	R

For more chemical details please contact us

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