

# Chemical Resistance Chart

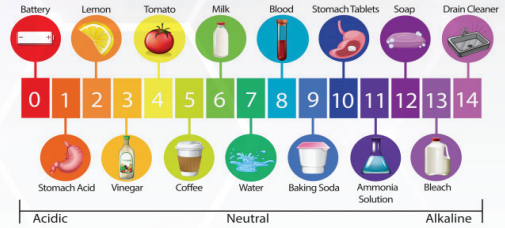
based on permeation test results. Please consider the warnings below the table.



Please understand that any hazards identified for the substances only show an indication and we cannot guarantee completeness or correctness. Please use the standardized symbols and warnings on the substance's label to identify risks. With the symbols shown below, we just highlighted some of the most prominent characteristics of a substance. We do not take any responsibility for irresponsible handling of any substance shown on this document.

This information does not reflect the actual duration of protection in the workplace and the differentiation between mixtures and pure chemicals. The chemical resistance has been assessed under laboratory conditions from samples taken from the palm only (except in cases where the glove is equal to or over 400 mm – where the cuff is tested also) and relates only to the chemical tested. It can be different if the chemical is used in a mixture. It is recommended to check that the gloves are suitable for the intended use because the conditions at the workplace may differ from the type of test depending on temperature, abrasion and degradation. When used, protective gloves may provide less resistance to the dangerous chemical due to changes in physical properties. Movements, snagging, rubbing, degradation caused by the chemical contact etc. may reduce the actual use time significantly. For corrosive chemicals, degradation can be the most important factor to consider in selection of chemical resistant gloves. Before usage, inspect the gloves for any defect or imperfections.

## The pH Scale



Sri Trang Gloves (Thailand) Public Co. Ltd. color codes give you an idea about the pH-value of acids and bases. If the pH-coloring does not apply, the substance name field will be grey. For non-water based substances, the color indicates pKs values of the pure substance (not in mixture or solution) corresponding to the pH-colors, but with a higher uncertainty.

Hazard	Structure	Substance	CAS Number	LOFBG	LCSD	NCFEL / NCFSL	NOFEL / NOFSL	NOFSD	NPT
	<chem>CC(=O)O</chem>	Acetic acid 10 %	64-19-7	Level 1	N.T.	Level 4	Level 4	Level 4	Level 4
	<chem>CC(=O)O</chem>	Acetic acid 99 %	64-19-7	X	X	X	X	X	X
	<chem>CC(=O)C</chem>	Acetone	67-64-1	X	X	X	X	X	X
	<chem>CC#N</chem>	Acetonitrile	75-05-8	X	X	X	X	X	X
	<chem>[NH4+]</chem>	Ammonium hydroxide 25%	1336-21-6	X	X	X	X	X	Level 1
	<chem>[NH4+]</chem>	Ammonium thioglycolate 60%	5421-46-5	N.T.	N.T.	Level 6	Level 6	Level 6	Level 6
	<chem>[C+]</chem>	Benzalkonium chloride 50%	8001-54-5	N.T.	N.T.	Level 6	Level 6	Level 6	Level 6
	<chem>S=C=S</chem>	Carbon disulfide	75-15-0	X	X	X	X	X	X
	<chem>ClC(Cl)H</chem>	Dichloromethane	75-09-2	X	X	X	X	X	X
	<chem>CCN</chem>	Diethylamine	109-89-7	X	X	X	X	X	X
	<chem>CCO</chem>	Ethanol 20%	64-17-5	X	X	N.T.	N.T.	N.T.	Level 6
	<chem>CCO</chem>	Ethanol 55%	64-17-5	X	X	X	X	X	N.T.
	<chem>C1=CC=C(C=C1)N</chem>	Ethidium bromide 1%	1239-45-8	N.T.	N.T.	Level 6	Level 6	Level 6	Level 6
	<chem>C1=CC=C(C=C1)N</chem>	Ethidium bromide 1.5%	1239-45-8	N.T.	N.T.	Level 6	Level 6	Level 6	Level 6
	<chem>CCOC</chem>	Ethyl Acetate	141-78-6	X	X	X	X	X	X
	<chem>OCCO</chem>	Ethylene Glycol	107-21-1	X	X	Level 6	Level 6	Level 6	Level 6

Hazard	Structure	Substance	CAS Number	LOFBG	LCSD	NCFEL / NCFSL	NOFEL / NOFSL	NOFSD	NPT
	<chem>HCHO</chem>	Formaldehyde 10 %	50-00-0	Level 6	Level 5	Level 6	Level 6	Level 6	Level 6
	<chem>HCHO</chem>	Formaldehyde 15 %	50-00-0	Level 6	Level 5	Level 6	Level 6	Level 6	Level 6
	<chem>HCHO</chem>	Formaldehyde 37 %	50-00-0	Level 6	Level 5	Level 5	Level 5	Level 5	Level 6
	<chem>O=C(CCCC=O)C=O</chem>	Glutaraldehyde 4 %	111-30-8	N.T.	N.T.	Level 6	Level 6	Level 6	Level 6
	<chem>HCl</chem>	Hydrochloric acid 10%	7647-01-0	Level 6	N.T.	Level 6	Level 6	Level 6	Level 6
	<chem>HCl</chem>	Hydrochloric acid 36%	7647-01-0	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
	<chem>HCl</chem>	Hydrochloric acid 40%	7664-39-3	X	X	X	X	X	X
	<chem>HO-OH</chem>	Hydrogen peroxide 30%	7722-84-1	Level 6	Level 3	Level 6	Level 6	Level 6	Level 6
	<chem>Oc1ccc(O)cc1</chem>	Hydroquinone 5%	123-31-9	N.T.	N.T.	N.T.	Level 6	Level 6	Level 6
	<chem>CC(C)O</chem>	Isopropanol 70%	67-63-0	S	N.T.	Level 1	Level 2	Level 5	Level 6
	<chem>CO</chem>	Methanol	67-56-1	X	X	X	X	X	X
	<chem>CCCCCCC</chem>	n-Heptane	142-82-5	X	X	X	X	N.T.	Level 2
	<chem>O=[N+]([O-])O</chem>	Nitric acid 10%	7697-37-2	Level 5	Level 1	Level 6	Level 6	Level 6	Level 6
	<chem>O=[N+]([O-])O</chem>	Nitric acid 65%	7697-37-2	Level 1	Level 1	X	X	X	N.T.
	<chem>OP(=O)(O)O</chem>	Phosphoric acid 10%	7664-38-2	N.T.	N.T.	N.T.	N.T.	N.T.	N.T.
	<chem>C15N1O10</chem>	Povidone Iodine 10%	25655-41-8	N.T.	N.T.	N.T.	Level 6	Level 6	Level 6
	<chem>[Na][OH]</chem>	Sodium hydroxide 40 %	1310-73-2	Level 4	Level 6	Level 6	Level 6	Level 6	Level 6
	<chem>Na2CO3</chem>	Sodium Percarbonate 10%	15630-89-4	N.T.	N.T.	N.T.	Level 6	Level 6	Level 6
	<chem>OS(=O)(=O)O</chem>	Sulfuric acid 47%	7664-93-9	Level 1	Level 1	Level 5	Level 6	Level 6	Level 6
	<chem>OS(=O)(=O)O</chem>	Sulfuric acid 96%	7664-93-9	Level 1	Level 1	X	X	X	Level 1
	<chem>C1CCOC1</chem>	Tetrahydrofuran	109-99-9	X	X	X	X	X	X
	<chem>Cc1ccccc1</chem>	Toluene	108-88-3	X	X	X	X	X	X



Oxidizing



Toxic



Corrosive



Highly  
Flammable



Harmful



Irritant

#### Permeation performance levels

Measured breakthrough time [min]	Permeation performance level	Measured breakthrough time [min]	Permeation performance level
not usable	X	>60	3
not tested	N.T.	>120	4
Splash protection	S	>240	5
>10	1	>480	6
>30	2		