



This chemical resistance information below is intended to assist the user in determining the compatibility of our Nylast® wheel material with certain chemicals. This chart is intended to serve only as a guide. These recommendations are based on laboratory and test reports which are to the best of our knowledge complete and accurate.

However, the degree of chemical resistance of the Nylast® material depends upon many variables including such factors as the manner of exposure, the length of exposure, temperature, and chemical concentration. Therefore, no guarantee is expressed or implied by our publication of this chemical resistance guide. To be certain of wheel performance in specific conditions, we advise that a sample wheel be purchased and tested under actual conditions.

The user assumes all risk and responsibility for determining the suitability of the Nylast® material in their specific application.

**Physical Properties:**

- Composition  
High performance black MoS2 cast nylon.
- Hardness  
85 Shore D.
- Tensile Strength  
11,000 psi.
- Compressive Strength  
(10% deformation) 14,000 psi.
- Temperature Range  
-30° to 220°F continuous,  
melting point: 420° F.

**Key**

A: Resistant

C: Non-resistant

UD: Undiluted

CA: As commercially available

B: Partially resistant

O: Dissolves

SS: Saturated aqueous solutions (@ 23° C)

RT: Room temp. (15-25° C)

	Conc. (%)	Temp (°C)	Nylast®	Chemical Group		Conc. (%)	Temp (°C)	Nylast®	Chemical Group	
Acetaldehyde {CH3COH}	40	RT	A	AL/K	Allyl alcohol {CH2C2H3OH}	UD	RT	B	ORAC	
Acetamide {CH3CONH2}	50	RT	A	AMID	Allyl chloride {CH2CHCH2Cl}	UD	RT	B	CFHC	
Acetic acid {CH3COOH}	50	140	O	ORAC	Aluminium chloride {AlCl3}	10	RT	A	SALT	
	5	RT	A		Aluminium hydroxide {Al(OH)3}	SS	RT	B	IOBA	
	10	RT	B		Aluminium salts	20	RT	B	SALT	
	10	50	C		Aluminium sulphate {Al2(SO4)3}	SS	50	C		
	30	RT	C			SS	100	C		
	50	RT	C			5	RT	A	SALT	
	50	75	C			Amines (aliphatic)	UD	RT	A	AMIN
	80	RT	C			Amino acids	UD	RT	A	ORAC
	80	60	C			Ammonia gas {NH3}	20	RT	B	IOBA
	95	RT	C			Ammonia {NH3}	20	60	A	IOBA
95	50	C		Ammonia {NH3} (cont.)	UD	RT	B			
95	75	C			UD	100	C			
95	90	O		Ammonia (liquid) {NH3}	20	RT	A	IOBA		
Acetone {CH3COCH3}	5	RT	A	AL/K		20	60	A		
	10	RT	A			UD	RT	A		
	50	RT	A			UD	70	B		
	UD	RT	A		Ammonium bicarbonate {NH4HCO3}	SS	RT	A	SALT	
Acetonitrile {CH3CN}	UD	RT		NITR	Ammonium carbonate {(NH4)2CO3}	10	RT	A	SALT	
Acetophenone {C6H5COCH3}	UD	RT	A	ARHC		SS	RT	A		
Acetylchloride {CH3COCl}	UD	RT	C	CFHC	Ammonium chloride {NH4Cl}	10	RT	A	SALT	
Acetylene {HCCH}	UD	RT	A	ALHC		10	60	C		
Acrylic acid {CH2CHCOOH}	UD	RT		ORAC	Ammonium hydroxide {NH4OH}	1	RT	A	IOBA	
	UD	30	O			10	RT	A		
	UD	50	O			30	RT	A		
Acrylonitrile {CH2CHCN}	UD	RT	A	NITR	Ammonium nitrate (fertilizer){NH4NO3}	10	RT	A	SALT	
Air (at all pressures)	UD	RT	A	ELSE						

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	Conc. (%)	Temp (°C)	Nylast®	Chemical Group		Conc. (%)	Temp (°C)	Nylast®	Chemical Group
Ammonium phosphate (fertilizer) {(NH4)2HPO4}	10	RT	A	SALT	Butyric acid {C3H7COOH}	20	RT	A	ORAC
Ammonium salts	10	RT	A	SALT	Butyrolactone {C4H6O2}	UD	RT	A	OTHC
Ammonium sulphate (fertilizer) {(NH4)2SO4}	10	RT	A	SALT	Calcium chloride {CaCl2}	5	RT	A	SALT
Amyl acetate {CH3COOC5H11}	UD	RT	A	ESTR		10	RT	A	
	UD	100	C			SS	RT	B	
Amyl alcohol {C5H11OH}	UD	RT	A	ALCO		SS	100	C	
Aniline {C6H5NH2}	UD	RT	B	AMIN	Calcium chloride, in alcohol {CaCl2}	20	RT	O	SALT
Antimony trichloride {SbCl3}	10	RT	C	SALT	Calcium hydroxide {Ca(OH)2}	10	RT	A	IOBA
	50	50	C			SS	RT	A	
	SS	RT	C		Calcium hypochlorite {Ca(OCl)2}	SS	RT	C	SALT
Aqua regia (HNO3/HCl) {HNO3 + HCl}	UD	RT	C	IOAC		SS	60	C	
Argon {Ar}	UD	RT	A	ELSE	Calcium salts	SS	RT	A	SALT
Aromatic hydrocarbons	UD	80	A	ARHC	Camphor {C10H16O}	50	RT	A	OTHC
Barium salts	SS	RT	B	SALT	Caprolactam {CONH(CH2)5}	UD	120	O	OTHC
Benzaldehyde {C6H5COH}	UD	RT	B	AL/K	Carbon dioxide {CO2}	UD	RT	A	ELSE
Benzaldehyde {C6H5COH}	UD	60	C		Carbon disulphide {CS2}	UD	RT	A	ELSE
Benzene {C6H6}	UD	RT	A	ARHC		UD	60	C	
	UD	65	A		Carbon tetrachloride {CCl4}	UD	RT	A	CFHC
	UD	80	A			UD	60	A	
Benzoic acid {C6H5COOH}	20	RT	B	ORAC	Carbonic acid {H2CO3}	10	RT	A	IOAC
	SS	RT	C			UD	RT	A	
	SS	100	C		Casein	CA	RT	A	ELSE
Benzyl alcohol {C6H5CH2OH}	UD	RT	B	ALCO	Chloral hydrate {CCl3CH(OH)2}	UD	RT	C	CFHC
	UD	80	O		Chloramines {R-NHCl / R-NCI2}	10	RT	C	CFHC
Bitumen	CA	RT	A	OTHC	Chlorine (liquid) {Cl2}	UD	RT	C	HALO
Bleaching liquor (12.5% Cl2) {NaOCl}	CA	RT	C	ELSE	Chlorine gas (dry) {Cl2}	UD	RT	C	HALO
	CA	40	C		Chlorine gas (wet) {Cl2}	UD	RT	C	HALO
Borax {Na2B4O7}	10	RT	A	SALT	Chlorine water {Cl2·H2O}	SS	RT	C	HALO
Boric acid {H3BO3}	10	RT	B	IOAC	Chloroacetic acid {ClCH2COOH}	10	RT	C	ORAC
Boron trifluoride {BF3}	UD	RT	C	ELSE		UD	RT	C	
Brakefluid (DIN 53521)	CA	RT	A	OTHC		UD	75	C	
	CA	60	A		Chlorobenzene {C6H5Cl}	UD	RT	A	ARHC
	CA	125	B			UD	50	A	
	CA	150	C		Chlorodifluoroethane (R-142B) {C2H3F2Cl}	UD	RT	A	CFHC
Bromine {Br2}	UD	RT	C	HALO	Chlorodifluoromethane (R-22) {CHF2Cl}	UD	RT	A	CFHC
Bromine (liquid) {Br2}	UD	RT	C	HALO	Chloroethanol {ClC2H4OH}	UD	RT	C	ALCO
	UD	100	C			UD	100	C	
Bromine water {Br2·H2O}	SS	RT	C	HALO	Chlorofluorocarbons (CFC)	UD	RT	A	CFHC
Bromochloromethane {CH2BrCl}	UD	RT	A	CFHC	Chloroform {CHCl3}	UD	RT	C	CFHC
Butadiene {H2CCHCHCH2}	UD	RT	A	ALHC		UD	50	C	
Butane {C4H10}	UD	RT	A	ALHC	Chlorosulfonic acid {ClHSO3}	10	RT	C	IOAC
Butanediol {HO(CH2)4OH}	UD	RT	A	ALCO		50	100	C	
Butene {C4H8}	UD	RT	A	ALHC		UD	RT	C	
Butyl acetate {CH3COOC4H9}	UD	RT	A	ESTR		UD	50	C	
Butyl acetate {CH3COOC4H9}	UD	100			Chromic acid {H2CrO4}	1	RT	B	IOAC
Butyl alcohol {C4H9OH}	UD	RT	A	ALCO		10	RT	C	
Butylglycol {HOC2H4OC4H9}	UD	RT	A	ALCO		20	RT	C	

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RT: Room temp. (15-25° C)

	Conc. (%)	Temp (°C)	Nylast®	Chemical Group		Conc. (%)	Temp (°C)	Nylast®	Chemical Group
	40	60	C			96	RT	B	
	40	80	C		Ethyl chloride {C2H5Cl}	UD	RT	B	CFHC
	50	RT	C		Ethylene {C2H4}	UD	RT	A	ALHC
Chromyl chloride {CrO2Cl2}	UD	RT	C	ELSE	Ethylene carbonate {C3H4O3}	UD	50	A	OTHC
Citric acid {C3H4OH(COOH)3}	10	RT	B	ORAC	Ethylene diamine {NH2C2H4NH2}	UD	RT	B	AMIN
	10	50	B		Ethylene glycol {HOC2H4OH}	UD	RT	A	ALCO
	20	80	B			UD	100	C	
Cobalt salts	20	RT	B	SALT	Ethylene oxide {C2H4O}	UD	RT	A	OTHC
Cooling fluids (DIN 53521)	CA	120	B	ELSE		UD	80	C	
Copper sulphate {CuSO4}	1	RT	A	SALT	Fat (vegetable oil)	CA	RT	A	OTHC
	10	RT	A		Fatty acids {R-COOH}	5	RT	A	ORAC
	SS	RT	A			UD	RT	A	
Copper(II)-salts	10	RT	B	SALT	Fluorine {F2}	UD	RT	C	HALO
Cresol {CH3C6H4OH}	90	RT	O	PHEN	Fluorosilicic acid {H2SiF6}	30	RT	C	IOAC
Crude oil	CA	RT	A	OTHC	Formaldehyde (aq.) {HCOH}	30	RT	B	AL/K
Cyclohexane {C6H12}	UD	RT	A	OTHC	Formaldehyde (gas) {HCOH}	UD	RT	A	AL/K
Cyclohexanol (and esters) {(C6H11)OH}	UD	RT	A	ALCO	Formamide {HCONH2}	UD	RT	A	AMID
Cyclohexanone {(C6H10)O}	UD	RT	A	ETHR	Formic acid {HCOOH}	2	RT	B	ORAC
Decahydronaphtalene {C10H18}	UD	RT	A	ARHC		2	100	C	
Detergent solutions	UD	RT	A	ELSE		5	80	C	
	UD	80	A			10	RT	C	
Developer solution	CA	RT	A	ELSE		10	50	C	
Dibutyl phthalate {C6H4[COOC4H9]2}	UD	RT	A	ESTR		50	RT	C	
Dichlorobenzene {C6H4Cl2}	UD	RT	A	ARHC		90	60	O	
Dichlorodifluoromethane (R-12) {CF2Cl2}	UD	RT	A	CFHC		UD	RT	O	
Dichlorodifluoromethane {CF2Cl2}	UD	50	A	CFHC		UD	100	O	
Dichloroethane {ClC2H4Cl}	UD	RT	A	CFHC	Fruit juices	CA	RT	A	ELSE
Dichloroethylene {CH2CCl2}	UD	RT	A	CFHC	Fuel oil DIN 51603 (test mixture A20-NP11)	CA	RT	A	OTHC
Dichlorofluoromethane (R-21) {CHFCl2}	UD	RT	A	CFHC	Furfural {C4H3COH}	UD	RT	A	ALCO
Dichlorotetrafluoroethane (R-114) {C2F4Cl2}	UD	RT	A	CFHC	Furfuryl alcohol {C4H3OCH2OH}	UD	RT	A	ALCO
Diesel (DIN 51601)	CA	RT	A	OTHC	Gas (Natural gas)	CA	RT	A	OTHC
	CA	85	A		Glycerine {CHOH(CH2OH)2}	UD	RT	A	OTHC
Diethylene glycol {O(C2H4OH)2}	UD	RT	A	ALCO		UD	100	C	
Dimethyl ether {CH3OCH3}	UD	RT	A	ETHR	Glycolic acid {HOCH2COOH}	30	RT	C	ORAC
Dimethylacetamide {CH3CON(CH3)2}	UD	RT	A	AMID		UD	RT	C	
Dimethylamine {(CH3)2NH}	UD	RT	A	AMIN		UD	100	C	
Dimethylformamide {HCON(CH3)2}	UD	RT	A	AMID	Helium {He}	UD	RT	A	ELSE
Diocetyl phthalate {C6H4(COOC8H17)2}	UD	RT	A	ESTR	Heptane {C7H10}	UD	RT	A	ALHC
Dioxane {C4H8O2}	UD	RT	A	ETHR	Hexachlorobenzene {C6Cl6}	UD	80	A	ARHC
	UD	60	A		Hexafluoroisopropyl alcohol {(CF3)2CHOH}	UD	RT	O	ALCO
Diphenyl ether {C6H5OC6H5}	UD	RT	A	ETHR	Hexane {C8H14}	UD	RT	A	ALHC
	UD	80	A		Humic acids	UD	RT	A	ORAC
Epichlorohydrine {C3H5ClO}	UD	RT	B	ETHR	Hydraulic oils	CA	RT	A	OTHC
Ethane {C2H6}	UD	RT	A	ALHC		CA	80	A	
Ether {C2H5OC2H5}	UD	RT	A	ETHR		CA	100	A	
Ethyl acetate {CH3COOC2H5}	UD	RT	A	ESTR	Hydrobromic acid {HBr}	10	RT	C	IOAC
Ethyl alcohol {C2H5OH}	40	RT	A	ALCO		50	RT	C	

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	Conc. (%)	Temp (°C)	Nylast®	Chemical Group		Conc. (%)	Temp (°C)	Nylast®	Chemical Group
	UD	RT	C		Lactic acid {CH <sub>3</sub> CHOHCOOH}	10	RT	A	ORAC
Hydrochloric acid {HCl}	1	RT	B	IOAC		90	RT	C	
	2	RT	B			90	60	C	
	2	100	C			UD	RT	C	
	10	RT	C			UD	100	C	
	10	60	C		Lead acetate {(CH <sub>3</sub> COO) <sub>2</sub> Pb}	10	RT	B	SALT
	10	80	C			SS	RT	C	
	20	RT	C			SS	100	C	
	20	100	C		Linseed oil	CA	RT	A	OTHC
	30	RT	O		Lithium salts	10	RT	B	SALT
	40	RT	O		Lubricating greases	CA	RT	A	OTHC
	40	100	O			CA	110	A	
	UD	RT	O		Lubricating oils	CA	RT	A	OTHC
Hydrofluoric acid {HF}	5	RT	C	IOAC	Magnesium chloride {MgCl <sub>2</sub> }	10	RT	A	SALT
	5	60	C			SS	RT	A	
	50	RT	C		Magnesium hydroxide {Mg(OH) <sub>2</sub> }	10	RT	A	IOBA
	50	50	C		Magnesium salts	10	RT	B	SALT
	UD	RT	C		Maleic acid {HOOCCH <sub>2</sub> COOH}	10	RT	B	ORAC
Hydrogen {H <sub>2</sub> }	UD	RT	A	ELSE		25	RT	B	
Hydrogen chloride (gas) {HCl}	UD	RT	C	IOAC	Malic Acid {HOOCCH(OH)CH <sub>2</sub> COOH}	SS	RT	A	ORAC
Hydrogen chloride (gas) {HCl} (cont.)	UD	100	C		Malonic acid {HOOCCH <sub>2</sub> COOH}	UD	RT	C	ORAC
Hydrogen iodide {HI}	UD	RT	C	IOAC	Manganese salts	10	RT	B	SALT
Hydrogen peroxide {H <sub>2</sub> O <sub>2</sub> }	1	RT	C	ELSE	Mercury {Hg}	UD	RT	A	ELSE
	30	RT	C		Mercury chloride {HgCl <sub>2</sub> }	5	RT	B	SALT
	30	60	C			SS	RT	C	
	30	75	C		Methane {CH <sub>4</sub> }	UD	RT	A	ALHC
	50	RT	C		Methyl acetate {CH <sub>3</sub> COOCH <sub>3</sub> }	UD	RT	A	ESTR
	UD	RT	C		Methyl alcohol {CH <sub>3</sub> OH}	50	RT	A	ALCO
Hydrogen sulphide (aq.) {H <sub>2</sub> S}	10	RT	A	IOAC		UD	RT	A	
Hydrogen sulphide (gas) {H <sub>2</sub> S}	UD	RT	B	IOAC	Methyl bromide {CH <sub>3</sub> Br}	UD	RT	B	CFHC
Hydroquinone {C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub> }	5	RT	C	PHEN	Methyl chloride {CH <sub>3</sub> Cl}	UD	RT	B	CFHC
Inert gases (Argon, Helium, Neon...)	UD	RT	A	ELSE	Methyl ethyl ketone {CH <sub>3</sub> COC <sub>2</sub> H <sub>5</sub> }	20	RT	A	AL/K
Iodine {I <sub>2</sub> }	UD	RT	C	HALO		UD	RT	A	
Iodine tincture {I <sub>2</sub> }	10	RT	C	HALO	Methylamine {CH <sub>3</sub> NH <sub>2</sub> }	UD	RT	A	AMIN
Iron(II)-chloride {FeCl <sub>2</sub> }	5	RT	A	SALT	Methylaniline {C <sub>6</sub> H <sub>5</sub> NHCH <sub>3</sub> }	UD	RT	A	ARHC
	10	RT	A		Methylene chloride {CH <sub>2</sub> Cl <sub>2</sub> }	UD	RT	C	CFHC
	SS	RT	C		Methylglycol {CH <sub>3</sub> OC <sub>2</sub> H <sub>4</sub> OH}	UD	RT	A	ALCO
	SS	100	C		Methylpyrrolidon (N-) {C <sub>5</sub> H <sub>9</sub> ON}	UD	RT	A	OTHC
Iron(III)-chloride {FeCl <sub>3</sub> }	5	RT	B	SALT	Milk	CA	RT	A	ELSE
Iron(III)-chloride {FeCl <sub>3</sub> }	10	RT	B		Mineral oils	CA	RT	A	OTHC
	SS	RT	C		Motor oils	CA	RT	A	OTHC
Isopropyl alcohol {(CH <sub>3</sub> ) <sub>2</sub> CHOH}	UD	RT	A	ALCO		CA	80	A	
Isopropyl ether {[CH(CH <sub>3</sub> ) <sub>2</sub> CH] <sub>2</sub> O}	UD	RT	A	ETHR	Motor oils HD	CA	130	A	OTHC
Kerosene	CA	RT	A	OTHC	Mould (MIL-T-18404 / 4.4.8)	UD	RT	A	ELSE
	CA	60	A		Naphtha	CA	RT	A	OTHC
	CA	85	A		Naphthalene {C <sub>10</sub> H <sub>8</sub> }	UD	RT	A	ARHC
Ketones (aliphatic) {RCOR}	UD	RT	B	AL/K	Naphthalenesulphonic acids {C <sub>10</sub> H <sub>7</sub> SO <sub>3</sub> H}	UD	RT	C	ORAC

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Naphthoic acids {C10H7COOH}	UD	RT	A	ORAC	Petrol, super (DIN 53521)	CA	60	A	OTHC	
Neon {Ne}	UD	RT	A	ELSE		CA	85	A		
Nickel salts	10	RT	A	SALT	Petrolether	CA	RT	A	OTHC	
Nitric acid {HNO3}	1	RT	B	IOAC	Phenol {C6H5OH}	CA	80	A		
	2	RT	C	IOAC		5	RT	C	PHEN	
	5	RT	C			75	RT	O		
	5	90	C			90	RT	O		
	10	RT	C			UD	40	O		
	10	60	C			UD	60	O		
	10	80	C			UD	75	O		
	20	RT	C			UD	100	O		
	30	RT	C			Phosphoric acid {H3PO4}	1	RT	B	IOAC
	50	RT	O				3	RT	C	
	50	100	O				3	80	C	
	80	RT	O				10	RT	C	
	80	50	O				25	RT	C	
80	75	O		25	60		C			
98	RT	O		50	RT		C			
98	50	O		50	100	C				
Nitrobenzene {C6H5NO2}	UD	RT	B	ARHC	Phosphoric acid {H3PO4} (cont.)	85	RT	O		
	UD	80	C			85	60	O		
						85	100	O		
Nitrogen {N2}	UD	RT	A	ELSE	Phthalic acid {C6H4(COOH)2}	SS	RT	B	ORAC	
Nitrogen oxides {NO / NO2}	UD	RT	B	ELSE	Plasticiser	CA	RT	A	ELSE	
Nitrogen under high pressure {N2}	UD	RT	A	ELSE	Potassium bromide {KBr}	10	RT	B	SALT	
Nitromethane {CH3NO2}	UD	RT	B	ALHC	Potassium carbonate {K2CO3}	50	RT	A	SALT	
Nitrotoluene {CH3C6H4NO2}	UD	RT	B	ARHC		SS	RT	A		
Nitrotoluene {CH3C6H4NO2} (cont.)	UD	100	O		Potassium chloride {KCl}	10	RT	A	SALT	
Octane {C8H18}	UD	RT	A	ALHC	Potassium dichromate {K2Cr2O7}	5	RT	B	SALT	
Octene {C8H16}	UD	RT	A	ALHC	Potassium hydroxide {KOH}	1	RT	A	IOBA	
Oils (ethereal)	CA	RT	A	OTHC		1	60	A		
Oils (vegetable, mineral)	CA	RT	A	OTHC		10	RT	A		
Oleic acid {CH3(CH2)7CHCH(CH2)7COOH}	UD	RT	A	ORAC		10	60	A		
Oleum {H2SO4 + SO3 (20%)}	UD	RT	O	IOAC		10	80	A		
Oxalic acid {HOCCOOH}	10	RT	B	ORAC		50	RT	B		
	UD	60	C			50	80	C		
Oxalic acid {HOCCOOH}	UD	100	C		Potassium nitrate {KNO3}	10	RT	A	SALT	
Oxygen {O2}	UD	RT	A	ELSE	Potassium permanganate {KMnO4}	1	RT	C	SALT	
Oxygen under pressure {O2}	UD	RT	C	ELSE		10	RT	C		
Ozone {O3}	UD	RT	C	ELSE		10	60	C		
Ozone - diluted in air (20 ppm) {O3}	0	RT	B	ELSE		30	80	C		
Palmitic acid {C15H31COOH}	UD	RT	A	ORAC		SS	RT	C		
Paraffin	CA	RT	A	OTHC	Potassium sulphate {K2SO4}	SS	RT	A	SALT	
Paraffine oil	CA	RT	A	OTHC	Potassium sulphide {K2S}	50	RT	A	SALT	
Perchloric acid {HClO4}	10	RT	C	IOAC	Propane {C3H8}	UD	RT	A	ALHC	
	70	RT	C		Propene {C3H6}	UD	RT	A	ALHC	
	UD	RT	C		Propionic acid {C2H5COOH}	5	RT	A	ORAC	
Petrol, normal (DIN 53521)	CA	85	A	OTHC						

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	Conc. (%)	Temp (°C)	Nylast®	Chemical Group		Conc. (%)	Temp (°C)	Nylast®	Chemical Group
	10	RT	C		Sodium silicate {Na <sub>2</sub> SiO <sub>3</sub> }	10	RT	A	SALT
Propionic acid {C <sub>2</sub> H <sub>5</sub> COOH}	50	RT	C		Sodium sulphate {Na <sub>2</sub> SO <sub>4</sub> }	10	RT	A	SALT
Propyl alcohol (n-) {C <sub>3</sub> H <sub>7</sub> OH}	UD	RT	A	ALCO	Sodium sulphide {Na <sub>2</sub> S}	5	RT	A	SALT
	UD	100	O			10	RT	A	
Pyridine {C <sub>5</sub> H <sub>5</sub> N}	UD	RT	A	AMIN	Sodium sulphite {Na <sub>2</sub> SO <sub>3</sub> }	5	RT	A	SALT
	UD	80	B		Sodium sulphite {Na <sub>2</sub> SO <sub>3</sub> }	10	RT	A	
Resorcinol {C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub> }	UD	RT	C	PHEN	Sodium thiosulphate {Na <sub>2</sub> S <sub>2</sub> O <sub>3</sub> }	10	RT	A	SALT
Resorcinol in ethanol {C <sub>6</sub> H <sub>4</sub> (OH) <sub>2</sub> }	50	RT	O	PHEN	Steam {H <sub>2</sub> O}	UD	>100	C	ELSE
Salicylic acid {HOC <sub>6</sub> H <sub>4</sub> COOH}	SS	RT	A	ORAC	Steam sterilisation; 50 cycles (DIN 58946)"	UD	134	B	ELSE
Siliconoil	CA	80	A	OTHC	Stearic acid {C <sub>17</sub> H <sub>35</sub> COOH}	UD	RT	A	ORAC
Silver nitrate {AgNO <sub>3</sub> }	50	RT	A	SALT	Styrene {C <sub>6</sub> H <sub>5</sub> CHCH <sub>2</sub> }	UD	80	A	ARHC
	SS	RT	A		Sulphur {S}	UD	RT	A	ELSE
Sodium acetate {CH <sub>3</sub> COONa}	10	RT	A	SALT	Sulphur dioxide, dry {SO <sub>2</sub> }	UD	RT	B	ELSE
	45	RT	A		Sulphur dioxide, wet {SO <sub>2</sub> }	UD	RT	B	ELSE
	60	RT	A		Sulphur hexafluoride {SF <sub>6</sub> }	UD	RT	A	ELSE
Sodium bicarbonate {NaHCO <sub>3</sub> }	10	RT	A	SALT	Sulphuric acid {H <sub>2</sub> SO <sub>4</sub> }	2	RT	C	IOAC
	SS	RT	A			3	80	C	
Sodium bisulphate {NaHSO <sub>4</sub> }	10	RT	B	SALT		5	RT	C	
Sodium bisulphite {NaS <sub>2</sub> O <sub>5</sub> }	10	RT	A	SALT		10	RT	C	
Sodium carbonate {Na <sub>2</sub> CO <sub>3</sub> }	10	RT	A	SALT		10	60	C	
Sodium carbonate {Na <sub>2</sub> CO <sub>3</sub> } (cont.)	SS	RT	A			10	80	C	
Sodium chlorate {NaClO <sub>3</sub> }	5	RT	A	SALT		10	100	C	
	10	RT	A			20	RT	C	
Sodium chloride {NaCl}	10	RT	A	SALT		30	RT	C	
Sodium cyanide {NaCN}	10	RT	A	SALT		30	60	C	
Sodium dichromate {Na <sub>2</sub> Cr <sub>2</sub> O <sub>7</sub> }	10	RT	A	SALT		30	80	C	
Sodium hydroxide {NaOH}	1	RT	A	IOBA		40	RT	C	
	10	RT	A			40	60	C	
	10	80	C			50	RT	C	
	15	RT	A			50	100	C	
	20	RT	A			60	RT	C	
	20	100	C			80	RT	O	
	30	RT	A			96	RT	O	
	30	80	C			96	60	O	
	40	80	C			96	75	O	
	50	RT	A			96	100	O	
	50	80	C		Sulphurous acid {H <sub>2</sub> SO <sub>3</sub> }	SS	RT	B	IOAC
Sodium hypochlorite (12.5% act. Cl) {NaOCl}	5	RT	B	SALT	Sulphuryl chloride {SO <sub>2</sub> Cl <sub>2</sub> }	UD	RT		ELSE
	10	RT	C		Tar	CA	RT	B	OTHC
	30	RT	C		Tartaric acid {HOOC(CHOH) <sub>2</sub> COOH}	5	RT	A	ORAC
	SS	RT	C			10	RT	B	
Sodium lactate {CH <sub>3</sub> CHOHCOONa}	60	RT	B	SALT		50	RT	B	
Sodium nitrate {NaNO <sub>3</sub> }	10	RT	A	SALT	Tetrachloroethylene {Cl <sub>2</sub> CCCl <sub>2</sub> }	UD	RT	B	CFHC
	50	RT	A			UD	80	C	
Sodium nitrite {NaNO <sub>2</sub> }	10	RT	A	SALT		UD	100	C	
Sodium phosphate {Na <sub>3</sub> PO <sub>4</sub> }	10	RT	A	SALT	Tetrafluoropropanol {F <sub>2</sub> CHCF <sub>2</sub> CH <sub>2</sub> OH}	UD	RT	O	CFHC
Sodium salts	10	RT	A	SALT	Tetrahydrofuran {C <sub>4</sub> H <sub>8</sub> O}	UD	RT	A	OTHC

## Key

A: Resistant

C: Non-resistant

UD: Undiluted

CA: As commercially available

B: Partially resistant

O: Dissolves

SS: Saturated aqueous solutions (@ 23° C)

RT: Room temp. (15-25° C)

	Conc. (%)	Temp (°C)	Nylast®	Chemical Group
Tetrahydronaphtalene {C10H12}	UD	RT	A	ARHC
Thionyl chloride {SOCl2}	UD	RT	O	ELSE
Thiophene	UD	RT	A	OTHC
Toluene {C6H5CH3}	UD	RT	A	ARHC
	UD	50	A	
	UD	65	A	
	UD	80	A	
	UD	100	A	
Transformer oils	CA	50	A	OTHC
Trichloroacetic acid {CCl3COOH}	50	RT	C	ORAC
	UD	RT	C	
	UD	80	C	
Trichloroethane (1,1,1-) {CH3CCl3}	UD	RT	A	CFHC
	UD	45	A	
Trichloroethanol {CCl3CH2OH}	UD	RT	O	ALCO
Trichloroethylene {ClCHCCl2}	UD	RT	B	CFHC
	UD	60	C	
	UD	80	C	
Trichlorofluoromethane (R-11) {CCl3F}	UD	RT	A	
Trichlorotrifluoroethane (R-113) {C2F3Cl3}	UD	RT	A	CFHC
Tricresylphosphate {OP(OC6H4CH3)3}	UD	RT	A	OTHC
Triethanolamine {(HOC2H4)3N}	UD	RT	A	AMIN
Trifluoroethanol {CF3CH2OH}	UD	RT	O	ALCO
Trimethylamine {(CH3)3N}	UD	RT	A	AMIN
Turpentine oil	CA	RT	A	OTHC
Urea {H2NCONH2}	5	RT	A	ELSE
	20	RT	A	

	Conc. (%)	Temp (°C)	Nylast®	Chemical Group
Uric acid {C5H4O3N4}	10	RT	A	OTHC
Urine	UD	RT	A	ELSE
Vaseline {C22H46 / C23H48}	CA	RT	A	OTHC
Vinegar	CA	RT	C	OTHC
Vinyl bromide {CH2CHBr}	UD	80	A	CFHC
Vinyl chloride {CH2CHCl}	UD	RT	A	CFHC
	UD	80	A	
Water {H2O}	UD	RT	A	ELSE
	UD	60	A	
	UD	80	B	
	UD	100	B	
Water (chlored) {H2O}	UD	RT	A	ELSE
Water (demineralised) {H2O}	UD	RT	A	ELSE
Water (distilled) {H2O}	UD	RT	A	ELSE
White Spirit	CA	RT	A	OTHC
Wine & Spirits	CA	RT	B	ELSE
Xylene {C6H4(CH3)2}	UD	RT	A	ARHC
	UD	60	A	
	UD	80	A	
	UD	100	A	
Zinc chloride {ZnCl2}	10	RT	B	SALT
	40	RT	C	
	50	RT	C	
	50	100	C	
	SS	RT	C	
	SS	80	C	
Zinc(II)-salts	10	RT	B	SALT

Source: Mitsubishi Chemical Advanced Materials

## Chemical Groups

AL/K	Aldehydes / Ketones
ALCO	Alcohols / Glycols
ALHC	Aliphatic Hydrocarbons
AMID	Amides
AMIN	Amines
ARHC	Aromatic Hydrocarbons
CFHC	Halogenated Hydrocarbons
ELSE	Other inorganic chemicals
ESTR	Esters

ETHR	Ethers
HALO	Halogens
IOAC	Inorganic acids
IOBA	Inorganic bases
NITR	Nitriles
ORAC	Organic acids
ORBA	Organic bases
OTHC	Other hydrocarbons (oils, fuels...)
PHEN	Phenols
SALT	Inorganic salts

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