



CHEMICAL RESISTANCE

INFRAPIPE™ MANUFACTURES
HIGH-QUALITY PRODUCTS THAT
ARE BUILT TO LAST WITH A LONG
ASSET LIFE.

Polyethylene and Polypropylene:
Leaders in Chemical Resistance




CHEMICAL RESISTANCE

















When it comes to withstanding aggressive chemicals, **polyethylene (PE) and polypropylene (PP)** pipes excel compared to other materials. For over 50 years, PE and PP pipes have proven their effectiveness in a wide range of chemical applications.

The Chemical Resistance table provides examples of applications where these pipes have been rigorously tested for **chemical resistance**. This information is based on the combined expertise of Krah, a leading global pipe producer, and established industry references. The following data is derived from **DIN** and **ISO** codes.

Important note: INFRAPIPE™ Limited cannot be held liable for any errors or omissions within this information.




CHEMICAL RESISTANCE	
PE	PE80, PE100; Polyethylene; High Density
PP	Polypropylene
a.s	aqueous solution
t.p	technically pure
s.s	saturated solution

SYMBOLS	
	RESISTANT
	LIMITED RESISTANCE
	NON-RESISTANT

CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Acet aldehyde	CH ₃ CHO	100%	20°C		
			60°C		
Acetic acid	CH ₃ COOH	10%	20°C		
			60°C		
Acetic acid glacial	(CH ₃ CO) ₂ O	96%	20°C		
			60°C		
Acetic anhydride	CH ₃ CO-O-COOH ₃	100%	20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Acetone	CH ₃ COCH ₃	100%	20°C		
			60°C		
Acetic acid	CH ₃ COOH	100%	20°C		
			60°C		
Acetic alcohol	CH ₂ =CH-CH ₂ OH	96%	20°C		
			60°C		
Alum	KAl(SO ₄) ₂	≤10%	20°C		
			60°C		
Aluminium Chloride	AlCl ₃	s.s.	20°C		
			60°C		
Aluminium fluoride	AlF ₃	s.s.	20°C		
			60°C		
Aluminium sulphate	Al ₂ (SO ₄) ₃	s.s.	20°C		
			60°C		
Ammonia (aqueous solution)	NH ₃	≤10%	20°C		
			60°C		
Ammonia (gas)	NH ₃	100%	20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Ammonia chloride	NH ₄ CL	s.s.	20°C		
			60°C		
Ammonium bicarbonate	NH ₄ HCO ₃	s.s.	20°C		
			60°C		
Ammonium fluoride	NH ₄ F	≤20%	20°C		
			60°C		
Ammonium nitrate	NH ₄ NO ₃	s.s.	20°C		
			60°C		
Ammonium sulphate	(NH ₄) ₂ SO ₄	s.s.	20°C		
			60°C		
Ammonium sulphide	(NH ₄) ₂ S	≤10%	20°C		
			60°C		
Amyl acetate	CH ₃ COO-C ₅ H ₁₁	t.p.	20°C		
			60°C		
Aniline	C ₆ H ₅ NH ₂	t.p.	20°C		
			60°C		
Antimony trichloride	SbCl ₃	s.s.	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Aqua regia	HNO ₃ +HCl	s.s.	20°C		
			60°C		
Arsenic acid	H ₃ AsO ₄	s.s.	20°C		
			60°C		
Barium carbonate	BaCO ₃	s.s.	20°C		
			60°C		
Barium chloride	BaCl ₂	s.s.	20°C		
			60°C		
Barium hydroxide	Ba(OH) ₂ . 8 H ₂ O	s.s.	20°C		
			60°C		
Barium sulphate	BaSO ₄	s.s.	20°C		
			60°C		
Barium sulphide	BaS	s.s.	20°C		
			60°C		
Beer		100%	20°C		
			60°C		
Benzaldehyde	C ₆ H ₅ CHO	s.s.	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Benzine	$C_5H_{12} - C_{12}H_{26}$	t.p.	20°C		
			60°C		
Benzoid acid	C_6H_5COOH	t.p.	20°C		
			60°C		
Benzene	C_6H_6	t.p.	20°C		
			60°C		
Borax	$Na_2B_4O_7$	s.s.	20°C		
			60°C		
Boric acid	H_3BO_3	s.s.	20°C		
			60°C		
Bromine (dry gas)	Br_2		20°C		
			60°C		
Bromine (liquid)	Br_2	s.s.	20°C		
			60°C		
Butane (gas)	C_4H_{10}		20°C		
			60°C		
Butanol	C_4H_9OH	a.s.	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Butyric acid	C ₃ H ₇ COOH	t.p.	20°C		
			60°C		
Calcium carbonate	CaCO ₃	s.s.	20°C		
			60°C		
Calcium chlorate	Ca(ClO ₃) ₂		20°C		
			60°C		
Calcium chloride	CaCl ₂	s.s.	20°C		
			60°C		
Calcium hydroxide	Ca(OH) ₂	s.s.	20°C		
			60°C		
Calcium hypochlorite	Ca(OCL) ₂	>10%	20°C		
			60°C		
Calcium nitrate	Ca(NO ₃) ₂	s.s.	20°C		
			60°C		
Calcium sulphate	CaSO ₄	s.s.	20°C		
			60°C		
Calcium sulphide	CaS	s.s.	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Carbon disulphide	CS ₂	100%	20°C		
			60°C		
Carbon monoxide	CO	100%	20°C		
			60°C		
Carbon tetrachloride	CCl ₄	100%	20°C		
			60°C		
Caustic soda	NaOH	>10%	20°C		
			60°C		
Caustic soda (sodium hydroxide)	NaOH	40%	20°C		
			60°C		
Caustic soda (sodium hydroxide)	NaOH	70%	20°C		
			60°C		
Chlorine (aqueous solution)	Cl ₂		20°C		
			60°C		
Chlorine dioxide (dry gas)	ClO ₂	100%	20°C		
			60°C		
Chlorine (dry gas)	Cl ₂	100%	20°C		
			60°C		

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Chlorine methane	CH ₃ Cl	100%	20°C		
			60°C		
Chloroacetic acid	ClCH ₂ COOH	>10%	20°C		
			60°C		
Chloroform	CHCl ₃	100%	20°C		
			60°C		
Chromic acid	H ₂ CrO ₄	>10%	20°C		
			60°C		
Citric acid	(COOH) ₃ C(CH ₂) ₂ OH		20°C		
			60°C		
Cupric chloride	CuCl ₂	s.s.	20°C		
			60°C		
Cupric nitrate	Cu(NO ₃) ₂		20°C		
			60°C		
Cupric sulphate	CuSO ₄	s.s.	20°C		
			60°C		
Cyclohexanol	C ₆ H ₁₁ OH	t.p.	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Cyclohexanone	C ₆ H ₁₀ O	t.p.	20°C		
			60°C		
Dekalin	C ₁₀ H ₁₈	t.p.	20°C		
			60°C		
Developer (photographic)		norm. conc	20°C		
			60°C		
Dextrine	(C ₆ H ₁₀ O ₅) _n	s.s.	20°C		
			60°C		
Diethyl ether	(C ₂ H ₅) ₂ O	t.p	20°C		
			60°C		
Dioktyl phthalate	C ₆ H ₄ (COOC ₈ H ₁₇) ₂		20°C		
			60°C		
Dioxane	O(C ₂ H ₄) ₂ O	t.p.	20°C		
			60°C		
Ethanole	C ₂ H ₅ OH	96%	20°C		
			60°C		
Ethyl acetate	CH ₂ COOC ₂ H ₅	s.s.	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Ethylene glycol	(CH ₂ OH) ₂	100%	20°C		
			60°C		
Ferrous chloride	FeCl ₃		20°C		
			60°C		
Ferrous sulphate	Fe ₂ (SO ₄) ₃		20°C		
			60°C		
Fluorine (gas)	F ₂	100%	20°C		
			60°C		
Formaldehyde	HCOH	40%	20°C		
			60°C		
Formic acid	HCOOH	90%	20°C		
			60°C		
Furfuryl alcohol	C ₅ H ₆ O ₂	t.p.	20°C		
			60°C		
Glucose	C ₆ H ₁₂ O ₆		20°C		
			60°C		
Glycerol	C ₃ H ₈ O ₃	s.s.	20°C		
			60°C		

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
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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Heptane	C ₇ H ₁₆	100%	20°C		
			60°C		
Hydrobromic acid	HBr	20%	20°C		
			60°C		
Hydrochlorid acid	HCl	10%	20°C		
			60°C		
Hydrochloric acid	HCl	38%	20°C		
			60°C		
Hydrocyanic acid	HCN	10%	20°C		
			60°C		
Hydrofluoric acid	HF	30%	20°C		
			60°C		
Hydrofluoric acid	HF	50%	20°C		
			60°C		
Hydrogen	H ₂	100%	20°C		
			60°C		
Hydrogen sulphide (gas)	H ₂ S	100%	20°C		
			60°C		

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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Hydroquinon	HO-<->-OH	s.s.	20°C		
			60°C		
Iron nitrate	Fe(NO ₃) ₃ .9H ₂ O	s.s.	20°C		
			60°C		
Lactic acid	CH ₃ CH(OH)COOH	80%	20°C		
			60°C		
Machine oil			20°C		
			60°C		
Magnesium carbonate	MgCO ₃		20°C		
			60°C		
Magnesium chloride	MgCl ₂		20°C		
			60°C		
Magnesium hydroxide	Mg(OH) ₂		20°C		
			60°C		
Magnesium nitrate	Mg(NO ₃) ₂		20°C		
			60°C		
Maleic acid	(CHCOO) ₂	>10%	20°C		
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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Mercury chloride	HgCl ₂		20°C		
			60°C		
Mercuric nitrate	Hg(NO ₃) ₂		20°C		
			60°C		
Mercury	Hg	100%	20°C		
			60°C		
Mercury cyanide	Hg(CN) ₂		20°C		
			60°C		
Methanol	CH ₃ OH	100%	20°C		
			60°C		
Milk	(From cow or goat)	100%	20°C		
			60°C		
Mineral oils			20°C		
			60°C		
Nickel chloride	NiCl ₂	s.s.	20°C		
			60°C		
Nickel nitrate	Ni(NO ₃) ₂	s.s.	20°C		
			60°C		

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














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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Nickel sulphate	NiSO ₄	s.s.	20°C		
			60°C		
Nicotinic acid	C ₅ H ₄ NCOOH	≤ 10%	20°C		
			60°C		
Nitric acid	HNO ₃	10%	20°C		
			60°C		
Nitric acid	HNO ₃	50%	20°C		
			60°C		
Nitric acid	HNO ₃	75%	20°C		
			60°C		
Nitric acid	HNO ₃	98%	20°C		
			60°C		
Oils and greases			20°C		
			60°C		
Oils (animal and vegetable oils)			20°C		
			60°C		
Oils (essential)			20°C		
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Oleic acid	$C_{18}H_{34}O_2$	100%	20°C		
			60°C		
Oleum	$H_4SO_4 + SO_3$	fuming	20°C		
			60°C		
Orthophosphoric acid	H_3PO_4	50%	20°C		
			60°C		
Orthophosphoric acid	H_3PO_4	95%	20°C		
			60°C		
Oxalic acid	$HOOC-COOH$	50%	20°C		
			60°C		
Oxygen	O_2	100%	20°C		
			60°C		
Ozone	O_3	100%	20°C		
			60°C		
Peroxide	H_2O_2		20°C		
			60°C		
Peroxide	H_2O_2	90%	20°C		
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Phenol	C ₆ H ₅ OH	≥ 10%	20°C		
			60°C		
Phosphorus trichloride	PCl ₃	t.p	20°C		
			60°C		
Picric acid	C ₆ H ₂ (OH)(NO ₂) ₃		20°C		
			60°C		
Potassium bicarbonate	KHCO ₃		20°C		
			60°C		
Potassium bromate	KBrO ₃		20°C		
			60°C		
Potassium bromide	KBr		20°C		
			60°C		
Potassium carbonate	K ₂ CO ₃		20°C		
			60°C		
Potassium chlorate	KClO ₃		20°C		
			60°C		
Potassium chloride	KCl		20°C		
			60°C		

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



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CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Potassium chromate	K ₂ CrO ₄		20°C		
			60°C		
Potassium cyanide	KCN	> 10%	20°C		
			60°C		
Potassium dichronate	K ₂ Cr ₂ O ₇	s.s.	20°C		
			60°C		
Potassium ferri cyanide	K ₃ [Fe(CN) ₆]		20°C		
			60°C		
Potassium ferrocyanice	K ₄ [Fe(CN) ₆]		20°C		
			60°C		
Potassium fluoride	KF		20°C		
			60°C		
Potassium hydrogen sulphate	KHSO ₄		20°C		
			60°C		
Potassium hydrogen sulphide	KHSO ₃	> 10%	20°C		
			60°C		
Potassium hydroxide	KOH	25%	20°C		
			60°C		

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CHEMICAL RESISTANCE	
PE	PE80, PE100; Polyethylene; High Density
PP	Polypropylene
a.s	aqueous solution
t.p	technically pure
s.s	saturated solution














SYMBOLS	
	RESISTANT
	LIMITED RESISTANCE
	NON-RESISTANT

CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Potassium hypochlorite	KClO	> 10%	20°C		
			60°C		
Potassium nitrate	KNO ₃		20°C		
			60°C		
Potassium orthophosphate	K ₃ PO ₄		20°C		
			60°C		
Potassium perchlorate	KClO ₄		20°C		
			60°C		
Potassium permanganate	KMnO ₄	10%	20°C		
			60°C		
Potassium persulfate	K ₂ S ₂ O ₈		20°C		
			60°C		
Potassium sulphate	KSO ₄	t.p.	20°C		
			60°C		
Potassium sulphide	K ₂ S		20°C		
			60°C		
Propionic acid	CH ₃ CH ₂ COOH	50%	20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Pyridine	C ₅ H ₅ N	> 10%	20°C		
			60°C		
Salicylic acid	C ₆ H ₄ (OH)(CO ₂ H)		20°C		
			60°C		
Silver acetate	CH ₃ COOAg		20°C		
			60°C		
Silver cyanide	AgCN		20°C		
			60°C		
Silver nitrate	AgNO ₃		20°C		
			60°C		
Sodium benzoate	C ₆ H ₅ COONa		20°C		
			60°C		
Sodium bromide	NaBr	s.s.	20°C		
			60°C		
Sodium carbonate	Na ₂ CO ₃	10%	20°C		
			60°C		
Sodium chlorate	NaClO ₃	> 10%	20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Sodium chloride	NaCl	> 10%	20°C		
			60°C		
Sodium cyanide	NaCN		20°C		
			60°C		
Sodium ferricyanide	Na ₃ [Fe(CN) ₆] . H ₂ O		20°C		
			60°C		
Sodium ferrocyanide	Na ₄ [Fe(CN) ₆] . 10 H ₂ O		20°C		
			60°C		
Sodium fluoride	NaF		20°C		
			60°C		
Sodium hydrogen carbonate	NaHCO ₃		20°C		
			60°C		
Sodium hydrogen phosphate	Na ₂ HPO ₄		20°C		
			60°C		
Sodium hydrogen sulphide	NaHSO ₃	> 10%	20°C		
			60°C		
Sodium hypochlorite	NaOCl	5%	20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Sodium nitrate	NaNO ₃	s.s.	20°C		
			60°C		
Sodium nitrite	NaNO ₂	s.s.	20°C		
			60°C		
Sodium orthophosphate	Na ₃ PO ₄		20°C		
			60°C		
Sodium sulphate	Na ₂ SO ₄	s.s.	20°C		
			60°C		
Sodium sulphide	Na ₂ S		20°C		
			60°C		
Sodium sulphite	Na ₂ SO ₃		20°C		
			60°C		
Stannic chloride	ZnCl ₂		20°C		
			60°C		
Sulphuric acid	H ₂ SO ₄	10%	20°C		
			60°C		
Sulphuric acid	H ₂ SO ₄	50%	20°C		
			60°C		

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

SYMBOLS	
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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Sulphuric acid	H ₂ SO ₄	95%	20°C		
			60°C		
Sulphuric acid	H ₂ SO ₄	98%	20°C		
			60°C		
Sulphuric subacidity	H ₂ SO ₃	90%	20°C		
			60°C		
Sulphur dioxide (dry)	SO ₂	100%	20°C		
			60°C		
Sulphurtrioxide	SO ₃	100%	20°C		
			60°C		
Tannic acid	C ₇₆ H ₅₂ O ₄₆	> 10%	20°C		
			60°C		
Tartaric (dihydroxisuccinic) acid	C ₄ H ₆ O ₆	> 10%	20°C		
			60°C		
Toluene	C ₆ H ₅ CH ₃	100%	20°C		
			60°C		
Trichlorethylene	Cl-CH=CCl ₂	100%	20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Triethanolamine	$(C_2H_4OH)_3N$	> 10%	20°C		
			60°C		
Urea	$(NH_2)_2CO$	> 10%	20°C		
			60°C		
Urine			20°C		
			60°C		
Water (incl. sea water)	H_2O		20°C		
			60°C		
Wines and alcohols (commercial grades)			20°C		
			60°C		
Wine vinegar			20°C		
			60°C		
Xylene	$C_6H_4(CH_3)_2$	100%	20°C		
			60°C		
Zinc carbonate	$ZnCO_3$		20°C		
			60°C		
Zinc chloride	$ZnCl_2$		20°C		
			60°C		

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CHEMICAL RESISTANCE					
CHEMICALS	FORMULAE	CONC.	TEMP	PE	PP
Zinc nitrate	Zn(NO ₃) ₂ . 6 H ₂ O		20°C		
			60°C		
Zinc sulphate	ZnSO ₄		20°C		
			60°C		

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