

Chemical Compatibility Guide

This guide should be used as a reference to select the proper pump, filter holder, and accessories with regard to chemical compatibility. The results were tested on raw material whose properties will be affected by many factors. Hence, the data can only serve as a basic guide and do not imply any guarantee of certain properties.

O - Recommended. / ▲ - Limited resistance. / X - Not recommended. / - Data not available.

Chemicals	Formula	ABS	POM	PC	PP	PES	PPSU	PTFE	SS316	EPDM	FKM	FFKM
ACIDS												
10% Hydrochloric Acid	HCl	O	O	O	O	O	O	O	X	O	O	O
20% Sulfuric Acid	H ₂ SO ₄	O	X	O	O	O	O	O	X	O	O	O
20% Nitric Acid	HNO ₃	O	X	O	O	X	-	O	O	O	O	O
20% Acetic Acid	C ₂ H ₄ O ₂	X	▲	O	O	O	O	O	O	O	O	O
10% Hydrofluoric Acid	HF	-	X	O	O	O	-	O	O	O	O	O
Aqua Regia	HNO ₃ +3HCl	X	X	X	▲	X	-	O	X	X	O	O
ALKALIS												
20% Sodium Hydroxide	NaOH	O	O	O	O	O	O	O	O	O	O	O
20% Potassium Hydroxide	KOH	O	O	X	O	O	-	O	O	O	O	O
28% Aqueous Ammonia	NH ₃	O	X	X	O	▲	-	O	O	O	O	O
ALCOHOLS												
Methanol	CH ₃ OH	X	O	O	O	O	O	O	O	O	X	O
Ethanol	C ₂ H ₅ OH	O	O	O	O	▲	O	O	O	O	O	O
Propanol	C ₃ H ₇ OH	-	O	-	O	O	-	O	O	O	O	O
Isopropanol	C ₃ H ₇ OH	O	O	O	O	O	O	O	O	O	O	O
n-Butanol	C ₄ H ₉ OH	X	O	O	O	O	O	O	O	O	O	O
KETONES												
Acetone	C ₃ H ₆ O	X	O	X	O	X	X	O	O	O	X	O
Methyl Ethyl Ketone (MEK)	C ₄ H ₈ O	X	O	X	O	X	-	O	O	O	X	X
OTHERS												
Acetonitrile	CH ₃ CN	-	X	X	O	X	-	O	O	O	X	O
10% Hydrogen Peroxide	H ₂ O ₂	O	X	O	O	O	-	O	O	▲	O	O
5% Bleach (Sodium Hypochlorite)	NaClO	O	X	O	O	O	-	O	O	O	O	O
Mineral Oil	-	O	O	O	O	O	O	-	O	X	O	O
Sea water	-	-	-	-	-	-	-	-	▲	-	-	-

Recommendations are based on a 24-hour static exposure to the test fluid at RT (21°C / 71 °F).