

# COMPATIBILITY

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## CHEMICAL COMPATIBILITY

### Chemical Compatibility Guide

The following information is intended to be used as a general guideline for pump material selection. The information accuracy of these ratings cannot be guaranteed, nor is it a complete list due to the extensive area of this field. Materials used in the pump and pumping systems must be chemically compatible. The data provided for the chemicals is at 70°F (21°C), unless otherwise noted. If your temperature differs from this, it may affect the compatibility of the fluid with the given pump materials by accelerating the reaction.

If you are unsure of the compatibility of your chemical, we recommend testing a sample of the material in question with the chemical.

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CHEMICALS	METALS					PLASTICS, ELASTOMERS & LEATHER																			
	Aluminum	Carbon Steel	Cast/Ductile Iron	304 Stainless Steel	316 Stainless Steel	Acetal	Buna	CSM (Hypalon)	EPR, EPDM	Fluorocarbon	Fluoroelastomer (FKM)	Geolast (Buna & Polypropylene)	Hastelloy C	TPE	Leather	Nitrile (TS)	Nitrile (TPE)	Nylon	Polychloroprene	Polypropylene	PTFE	PVDF	Santoprene (EPDM & Polypropylene)	UHMWPE	Urethane
Dry Cleaning Fluid	A	A	A	A	A	-	D	-	D	A	A	-	-	-	-	C	D	-	D	D	A	A	D	D	D
DTE Light Oil	-	-	-	-	-	-	-	-	D	-	A	-	-	B	-	A	B	-	B	-	B	-	D	A	D
Dyes	B	-	B	A	A	C	C	-	-	-	A	-	A	-	-	-	-	A	C	-	-	-	-	-	-
Ethyl Alcohol (Ethanol)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Epichlorohydrin	D	A	A	A	A	A	D	-	C	D	D	D	A	D	-	D	D	A	D	B	A	D	B	-	D
Epsom Salts (Magnesium Sulfate)	B	A	A	A	B	B	A	A	A	A	A	A	B	-	-	A	A	B	A	A	A	A	A	A	-
Esam-6 Fluid	-	-	-	-	-	-	-	-	A	-	D	-	-	-	-	-	-	-	B	-	-	-	B	-	-
Esstic 42,43	-	-	-	-	-	-	-	-	D	-	A	-	-	D	-	A	A	-	B	-	-	-	D	-	B
Ethane	A	A	A	A	A	A	A	B	D	A	A	A	A	-	-	A	C	D	C	D	A	A	C	-	B
Ethanol (Ethyl Alcohol)	B	B	B	A	A	A	C	A	A	-	A	-	A	A	-	A	A	C	A	A	A	A	A	A	D
Ethanol Chloride	-	-	-	-	-	-	-	-	C	-	B	-	-	-	-	D	D	-	D	-	A	-	B	-	-
Ethanolamine	B	A	B	A	A	D	B	C	B	D	D	A	B	-	-	B	B	A	C	D	A	D	A	A	C
Ether	B	C	C	A	A	A	D	D	C	-	C	D	B	-	-	-	-	A	D	D	A	B	-	-	-
Ether Sulfate	-	B	-	D	D	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	A	-	-	-	-
Ethers	B	B	C	B	B	A	-	-	C	-	D	-	B	D	A	D	D	A	D	D	A	D	C	D	D
Ethylene Oxide	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethylene Trichloride (Trichloroethene)	-	-	-	-	-	-	-	-	-	-	-	D	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl (Liquor)	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-	-	-	-	-	-	-	-	-	-
Ethyl Acetate	B	A	A	B	B	A	D	D	B	D	D	D	B	B	-	D	D	B	D	C	A	D	C	B	D
Ethyl Acetate 120° F	B	-	B	B	B	A	-	-	-	-	-	-	-	-	-	-	-	A	-	B	A	-	-	A	-
Ethyl Acetate 140° F	B	-	B	B	B	-	-	-	-	-	-	-	-	-	-	-	-	B	-	B	A	D	-	D	-
Ethyl Acetate 70° F	B	B	B	B	B	A	-	-	-	-	-	-	-	C	-	-	-	A	-	A	A	A	A	A	-
Ethyl Acetoacetate	A	-	A	A	-	A	D	-	C	D	D	D	A	D	-	D	D	-	D	-	A	A	C	A	D
Ethyl Acrylate	A	-	A	A	A	A	D	-	C	D	D	D	A	-	-	D	D	-	D	D	A	C	C	-	D
Ethyl Alcohol (Ethanol)	B	-	B	A	-	-	A	-	-	B	-	-	A	-	-	-	-	D	A	A	A	A	B	A	-
Ethyl Alcohol (Ethanol)	B	-	B	A	-	-	A	-	A	B	A	-	A	A	-	A	A	D	A	A	A	A	A	A	D
Ethyl Aluminum Dichloride	-	-	-	-	-	-	D	-	-	B	B	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Ethyl Amine (Monoethylamine)	B	-	B	A	-	-	D	-	A	D	D	-	-	-	-	D	-	-	D	-	A	-	-	-	D
Ethyl Benzene	B	A	B	B	B	A	D	-	D	A	A	D	A	-	-	D	D	-	D	D	A	C	D	A	D
Ethyl Benzoate	A	A	A	A	A	A	D	-	D	A	A	D	A	-	-	D	D	D	D	C	A	D	C	-	D
Ethyl Bromide (Bromoethane)	A	-	A	A	-	-	D	-	D	-	A	D	-	-	-	B	C	-	D	D	A	-	D	-	D
Ethyl Butyl Acetate	-	-	-	-	-	-	D	-	-	D	D	-	-	-	-	D	D	-	-	-	A	-	-	-	-
Ethyl Butyl Alcohol	-	-	-	-	-	-	A	-	-	B	B	-	-	D	-	A	A	-	-	-	A	-	-	-	D
Ethyl Butyl Ketone	-	-	-	-	-	-	D	-	-	D	D	-	-	-	-	D	D	-	-	-	A	-	-	-	-