

The below chart is a guide to the materials used to fabricate the internal "wetted" components in the centrifugal pumps manufactured by Ampco Pumps. The information in this chart is based upon careful examination of available published information and is believed to be accurate. However, since the resistance of metals, polymers, and elastomers can be affected by concentration, temperature, and other factors, this information should be considered as a general guide rather than an unqualified guarantee. The end user of the pump must ultimately decide the suitability of the pump materials with their own system.

Fluid Media	Metals			Secondary Seals				Seal Faces			
	Duplex 2205	Cast CF8M S.S.	Bronze CDA958	Buna-N	Viton	EPDM	Teflon	Carbon	Ceramic	Silicon Carbide	Tungsten Carbide
Acetic Acid, <30%	A	A	A	NR	B	A	A	A	A	A	A
Acetic Acid, > 30%, to 70 °F	NR	A	A	NR	B	B	A	A	A	A	NR
Acetone	A	A	A	NR	A	A	A	A	A	A	A
Aluminum Sulphate, <10%	A	B	A	A	A	A	A	A	A	A	NR
Aluminum Sulphate, >10%	B	NR	A	A	A	A	A	A	A	A	NR
Ammonia, Liquid	NR	NR	-	NR	NR	A	A	A	A	A	A
Ammonium Chloride, <10%	B	B	NR	A	A	A	A	A	A	A	NR
Ammonium Hydroxide, <30%	A	A	NR	A	C	A	A	A	A	B	NR
Amyl Acetate	A	A	-	A	NR	C	A	A	NR	A	A
Amyl Alcohol, to 200 °F	A	A	-	B	B	A	A	A	A	A	A
Amyl Chloride, to 150 °F	A	A	A	-	A	NR	A	A	A	A	A
Anti-Freeze, to 140 °F	A	A	A	C	C	A	A	A	A	A	A
Barium Chloride, <5%	AB	B	A	A	A	A	A	A	A	A	NR
Barium Hydroxide, to 160 °F	A	AB	AB	A	A	A	A	A	A	A	A
Beer	A	AB	A	A	A	A	A	A	A	A	A
Beet Sugar Liquors	A	A	A	A	A	A	A	A	A	A	A
Benzene	A	A	A	A	A	A	A	A	A	A	A
Bisphenol-A	A	A	-	B	A	NR	A	A	A	A	NR
Bleach-Sodium Hypochlorite, <20%	B	B	B	NR	A	A	A	NR	A	B	NR
Bromine	NR	NR	-	NR	A	NR	NR	NR	A	B	NR
Bunker C Fuel Oil	A	A	-	A	A	-	A	A	NR	A	A
Butane, Liquid	A	A	A	A	A	NR	A	A	A	A	A
Calcium Bisulfate	B	B	-	B	B	A	A	A	A	B	NR
Calcium Chlorate	B	B	-	C	C	A	A	A	A	A	NR
Chlorine Water	B	B	NR	NR	A	NR	A	A	A	A	A
Citric Acid	A	AB	NR	A	A	A	A	A	A	A	NR
Corn Oil	A	A	-	A	A	C	A	A	A	A	A
Cutting Oil	A	A	A	A	A	NR	A	A	A	A	A
De-ionized Water	A	A	-	B	B	A	A	A	A	A	NR
Diesel Fuel	A	A	A	A	A	NR	A	A	A	A	A
Dimethyl Ether, <50%	B	B	-	A	B	B	A	A	A	A	A
Dimethyl Formahyde	A	A	-	B	NR	A	A	A	A	A	A
Esters	A	A	A	NR	A	A	A	A	A	A	A
Ethers, to 70 °F	A	A	A	NR	A	C	A	A	-	A	A
Ethyl Alcohol	A	A	-	C	C	A	A	A	A	A	A
Ethyl Chloride, to 140 °F	A	-	-	A	A	C	A	A	A	A	NR
Ethyl Mercaptin, to 70 °F	A	B	-	NR	A	-	A	A	A	A	NR
Ethylene Chlorohydrin	AB	AB	-	NR	A	B	NR	-	-	-	-
Ethylene Dichloride	AB	-	-	NR	A	C	A	A	A	A	NR
Ethylene Glycol, to 140 °F	A	A	A	A	A	A	A	A	A	A	A
Ferric Chloride	NR	NR	NR	A	A	A	A	A	A	B	NR
Formic Acid	A	NR	AB-70°F	-	NR	A	A	A	A	B	A
Fruit Juice	A	A	-	A	A	A	A	A	-	A	A
Furfural	A	A*	A	NR	NR	A	A	A	C	A	NR
Gasoline	A	A	A	A	A	NR	A	A	A	A	NR

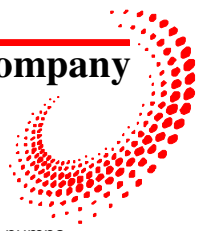
Compatibility Rating

A – Excellent B- Good C – Fair/Component life will be limited NR – Not Recommended

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	Duplex 2205	Cast CF8M S.S.	Bronze CDA958	Buna-N	Viton	EPDM	Teflon	Carbon	Ceramic	Silicon Carbide	Tungsten Carbide
Glucose	A	A	A	A	A	A	A	A	A	A	A
Glycerine	A	A	A	A	A	A	A	A	A	A	A
Hexane	A	A	-	A	A	NR	A	A	A	A	A
Hydraulic Oil	A	A	A	A	A	NR	A	A	A	A	A
Hydrochloric Acid, <15%	NR	NR	AB	NR	A	NR	A	A	A	NR	NR
Hydrocyanic Acid, <15%	A	A	NR	B	A	A	A	A	A	B	NR
Hydrogen Peroxide, <30%	A	A	NR	B	A	A	A	A	A	A	NR
Hydrogen Peroxide, <85%	A	AB	NR	NR	A	C	A	NR	A	A	NR
Iodine	B	B	NR	B	B	A	A	A	A	A	NR
Isobutane	A	A	A*	A	A	NR	A	A	A	A	A
Isobutyl Alcohol	A	A	-	B	A	A	A	A	A	A	A
Isopropyl Acetate	A	A	-	NR	NR	B	A	A	A	A	A
Isopropyl Ether	A	A	-	B	NR	NR	A	A	A	A	A
Jet Fuel	A	A	-	B	A	NR	A	A	A	A	A
Kerosene	A	A	-	A	A	NR	A	A	A	A	A
Ketones	A	A	B	NR	NR	A	A	A	A	A	A
Lacquer Thinner	A	A	A	NR	NR	NR	A	A	-	A	A
Linseed Oil	A	A	-	A	A	C	A	A	A	A	A
Liquid Petroleum Gas	A	A	A	A	A	NR	A	A	A	A	A
Magnesium Chloride, <33% to 70 °F	A	A	A	A	A	A	A	A	A	A	A
Magnesium Hydroxide, <10%	AB	AB	A	B	A	A	A	A	A	A	A
Magnesium Sulfate, <40%	A	B	A	A	A	A	A	A	A	A	A
Methanol	A	A	-	NR	NR	A	A	A	A	A	A
Methyl Ethyl Ketone (MEK)	A	A	-	NR	NR	A	A	A	A	A	A
Molasses	A	A	A	A	A	-	A	A	A	A	A
Naphtha, Petroleum	A	A	A	B	A	NR	A	A	NR	A	A
Nitric Acid, <50%	A	A	NR	NR	A	B	-	A	A	NR	A
Nitric Acid, >50%	-	B	NR	NR	C	NR	A	NR	NR	A	NR
Oleic Acid	A	A	A*	C	B	NR	A	A	A	A	NR
Ozone, <12%	A	A	-	NR	A	A	A	NR	NR	A	NR
Palm Oil	A	A	-	A	A	NR	A	A	A	A	A
Palmitic Acid	A	B	B	A	A	B	A	A	A	A	A
Potassium Chloride	A	B	A	A	A	A	A	A	A	B	NR
Potassium Hydroxide	A	B	AB	C	C	A	A	NR	A	B	A
Potassium Nitrate	A	-	B	A	A	A	A	A	A	A	A
Propane	A	A	A	A	A	NR	A	A	A	A	A
Propylene Glycol	A	A	-	C	C	A	A	A	A	A	A
Rapeseed Oil	A	A	-	B	A	A	A	A	A	A	A
Sea Water	A	B	A	A	A	A	A	A	A	A	A
Sodium Chloride	A	AB	A	A	A	A	A	NR	A	A	NR
Sodium Hydroxide, <50%	A	AB	A	B	B	A	A	A	-	NR	NR
Sulphuric Acid, <2%	A	B	A	C	C	A	A	A	A	NR	NR
Toluene	A	A	A	NR	A	NR	A	A	A	A	A
Xylene	A	B	A	NR	A	NR	A	A	A	A	A
Zinc Chloride	A	B	NR	A	A	A	A	A	A	B	NR

Compatibility Rating

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