

Impeller Corrosion Table:

This table lists the maximum temperatures at which various polymers can be used without experiencing impeller corrosion. 20°C represents standard room temperature. Note that the behavior of a polymer can vary depending on the specific type, concentration, and temperature of use, as indicated by the "Variable / V" designation."

KEY	A	B	C	V	ND
	Excellent	Fair / Good	Not Advisable	Variable	No Data
PRODUCT	NBR	EPDM	CR	NR	VQM
Acetic Acid (30%)	B (20°C)	A	B (20°C)	B (20°C)	ND
Ammonium Hydrox- ide (30%)	A (80°C)	ND	A (90°C)	A (65°C)	ND
Aniline	C	A (90°C)	C	C	B (20°C)
Aniline Oil	C	B (20°C)	C	C	C
Beer	A (60°C) - B (80°C)	A (60°C) - B (80°C)	A (60°C)	A (20°C)	A (20°C)
Benzyl Alcohol	C	B (40°C) - C (60°C)	V	C	ND
Boric Acid	A (60°C) - B (90°C)	A (60°C) - B (90°C)	A (70°C) - B (90°C)	A (20°C) - B (85°C)	A (20°C)
Bromic Acid (40%)	C	A (90°C)	V	B (20°C)	C
Butadiene	V	V	V	C	C
Butane	A (90°C) B (80°C)	C	A (60°C)	C	C
Butter	A (60°C)	A (60°C)	B (20°C) - C (60°C)	C	B (20°C)
Calcium Hydrate	A (90°C) - B (90°C)	A (20°C)	A (20°C) - B (90°C)	A (20°C) - B (65°C)	A (20°C)
Calcium Hypochlo- rite	C	A (120°C)	C	C	B (20°C)
Cane Sugar Liquid	A (20°C) - B (90°C)	A (80°C)	A (20°C) - B (90°C)	A (20°C)	A (20°C)
Castor Oil	A (70°C)	A (60°C)	A (70°C)	A (25°C)	A (20°C)
Chlorine (Dump)	C	V	C	C	C
Chloroacetic Acid	C	B (70-90°C)	A (20°C) - C (40°C)	V	V
Chloroform	C	C	C	C	C
Chromic Acid	C	B	V	V	V
Citric Acid	A (70°C) - B (80°C)	A	A	A (20°C)	A (20°C)
Cod-Liver Oil	A (20°C) - B (50°C)	A (20°C)	B (20°C)	C	B (20°C)
Corn Oil	A (80°C)	V	B (20°C)	C	A (20°C)
Cotton Oil	A (70°C) - B (80°C)	A (20°C) - C (80°C)	B (65°C)	C	A (20°C)
Diesel Oil	A (80°C)	C	C	C	C
Ethyl Acetate	C	A (55°C) - C (70°C)	C	C	B (20°C)
Ethyl Alcohol	A (60°C) - B (85°C)	A (90°C)	A (70°C) - B (80°C)	A (20°C) - B (65°C)	B (20°C)
Fluoboric Acid	A (60°C) - B (85°C)	A (60°C) - B (80°C)	A (60°C) - B (85°C)	A (20°C) - B (65°C)	A (20°C)
Formic Acid	V	A (90°C)	V	B (20°C)	B (20°C)
Fruit Juices	A (60°C)	A (100°C)	A (60°C)	V	A (20°C)
Gelatine	A (70°C)	A (80°C)	A (60°C) - B (80°C)	A (20°C) - B (65°C)	A (20°C)
Glucose	A (70°C)	A (80°C)	A (60°C)	A (20°C) - B (48°C)	A (20°C)
Glycerine	A (80°C)	A (80°C) - B (90°C)	A (70°C)	A (20°C) - B (65°C)	A (20°C)
Hydraulic Oil	C	A (100°C)	C	C	V
Hydrochloric Acid (Conc.)	C	C	C	V	C
Hydcyanic Acid	B (60°C)	A (60°C)	V	ND	B (20°C)
Hydrofluoric Acid (50%)	C	B (60°C)	V	C (20°C)	V
Hydrofluoric Acid (Conc.)	C	C	C	C	C
Iodine	B (60°C)				
A (20°C), 6.5%	B (70°C)				

A (20°C), 6.5%	C	C	C		
----------------	---	---	---	--	--

PRODUCT	NBR	EPDM	CR	NR	VQM
Kerosene	A (80°C)	C	B (20°C)	C	C
Lactic Acid (Conc.)	A (20°C)	A (60°C)	A (20°C) - B (60°C)		
C (80°C)	ND	ND			
Linseed Oil	A (80°C)	B (20°C)	B (20°C)	C	C
Magnesium Chloride	A (70°C) - B (80°C)	A (80°C) - B (100°C)	A (80°C) - B (90°C)	A (20°C) - B (85°C)	A (20°C)
Magnesium Sulphate	A (80°C) - B (100°C)	A (80°C) - B (100°C)	A (80°C) - B (90°C)	B (85°C)	A (20°C)
Mercury	A (60°C)	A (60°C)	A (60°C)	A (20°C)	A (20°C)
Methyl Alcohol	B (65°C)	A (70°C) - B (80°C)	A (60°C) - B (80°C)	B (37°C)	A (70°C)
Methyl-Ethyl-Ketone	C	A (60°C) - B (90°C)	C	C	C
Milk	A (60°C)	A (100°C)	A (60°C)	A (20°C) - B (37°C)	A (20°C)
Nitric Acid (10%)	C	A (40°C) - C (80°C)	C (40°C)	C	B (20°C)
Nitric Acid (70%)	ND	C	C	C	C
Olive Oil	A (80°C)	B (20°C)	V	C	V
Oxalic Acid (Conc.)	B (60°C)	A (100°C)	B (60°C)	B (20°C)	B (20°C)
Palmitic Acid	A (70°C)	B (20°C)	B (20-70°C)	B (20°C)	C
Paraffin	A (60°C)	C	B (20°C)	V	C
Perchloroethylene	V	C	C	C	V
Petrol	A (80°C)	C	C	C	C
Phosphoric Acid (85%)	C	A (80°C)	A (40°C)	B (65°C)	C
Picric Acid	C	A (20°C)	B (20°C)	C	C
Picric Acid (10%)	B (70°C)	B (90°C)	A (20°C) - C (40°C)	B (20°C)	C
Pine Oil	B (80°C)	C	C	C	C
Propyl Alcohol	B (80°C)	B (90°C)	A (60°C) - B (90°C)	A (20°C) - B (65°C)	A (20°C)
SAE Oil N. 10	A (80°C)	C	V	C	V
Sodium Chloride	A (70°C)	B (90°C)	A (80°C)	A (65°C)	B
Sodium Hydrate	B (65°C)	A (20°C)	B (90°C)	A (20°C) - B (65°C)	C (20°C)
Soybean Oil	A (80°C)	V	B (20°C)	C	C
Stearic Acid	A (80°C)	B (60°C)	B (60-70°C)	V	B (20°C)
Sulphur (fused 120°C)	C	A (100°C)	A (20°C)	C (20°C)	A (20°C)
C (120°C)					
Sulphur Dioxide	C	C (20°C)	C (20°C)	C	A (20°C)
Sulphuric Acid (50%)	A (20°C) - C (80°C)	B (60-80°C)	B (70°C)	B (26°C)	V
Sulphuric Acid (80%)	A (20°C) - C (60-80°C)	A (60°C) - C (80°C)	C	C	C
Toluol	C	C	C	C	C
Tomato Juices	A (60°C)	A (80°C)	A (60°C)	ND	ND
Trichloroethylene	C	C	C	C	C
Triethanolamine	C (20°C) 100%				
B (37°C) 80%	A (70°C)	A (70°C)	B (26°C)	C	
Vegetable Oil	A (70°C)	V	C (20°C)	C	A (20°C)
Vinegar	B (20°C) - V (60°C)	A (60-90°C)	B (90°C)	B (20°C)	A (20°C)
Water	A (80°C)	A (100°C)	B (80°C)	A (20°C) - B (80°C)	B (80°C)
Whiskey	A (90°C)	A (90°C)	A (60°C) - C (90°C)	A (20°C) - B (65°C)	A (20°C)
Wine	A (90°C)	A (90°C)	A (90°C)	A (20°C) - B (65°C)	A (20°C)
Xylo	C	C	C	C	C