

MAGNETIC-DRIVE CENTRIFUGAL PUMPS

CHEMICAL COMPATIBILITY CHART

Resistance ratings for the nine wetted materials used across the MC Series, listed alphabetically by chemical with concentration and specific gravity. Each rating pairs a resistance grade with the maximum continuous service temperature for that material in that fluid. Verify the complete wetted path – casing, containment shell, bushings, thrust rings, and elastomers – before specifying a pump.

HOW TO READ THIS CHART

RESISTANCE GRADE

- A** No effect – excellent
- B** Minor effect – good
- C** Moderate effect – fair
- D** Severe effect – not recommended
- No data available

TEMPERATURE RATING

- 1** Satisfactory to 140°F
- 2** Satisfactory to 100°F
- 3** Satisfactory to 68°F

WETTED MATERIAL KEY

HOUSING MATERIALS	GFRPP	Glass fiber-reinforced polypropylene
ELASTOMERS	FKM	Fluorocarbon elastomer
	EPDM	EPDM rubber
WEAR COMPONENTS	GF PTFE + Mo	Glass-filled PTFE w/ molybdenum
	CARB GRPH	Carbon graphite (resin)
	SILC CARB	Silicon carbide (SiC)
	Al ₂ O ₃	Alumina ceramic

IMPACT The lowest-rated material in the wetted path governs the pump. Specify to that limit.

IMPORTANT NOTICE The chemical compatibility information in this document is provided for general reference only and does not constitute a guarantee of suitability for any specific application. See the full disclaimer on page 13 for important limitations, warranty exclusions, and user responsibilities before using this chart.

CHEMICAL COMPATIBILITY

ACETAMIDE — ACETIC ACID 50%

			HOUSING	ELASTOMERS		WEAR COMPONENTS			
CHEMICAL NAME	CONC %	SG	GFRPP	FKM	EPDM	GF PTFE + Mo	CARB GRPH	SILC CARB	Al ₂ O ₃
Acetamide		1.16	C1	C1	C1	A	A	A	A
Acetic Acid 20%	20	1.03	A	D	C3	A	C3	A	A
Acetic Acid 50%	50	1.06	A	D	C3	A	A	A	A