

MATERIAL SELECTION GUIDE

MATERIAL	ENVIRONMENTS	SUITABLE METAL
Acetic Acid	10%-21°C	SS304
	50%-100°C	SS316
	99%-100°C	SS430
Acetic Anhydride		Monel
Acetone	100°C	SS304
Aluminium	Molten	Cast Iron
Ammonia	100%	SS304
Ammonium Chloride	100%, 100°C	SS316
Asphalt		Monel, Nickel, Steel(C1018)
Barium Carbonate	21°C	SS304
Barium Chloride	5%-21°C	Monel
	Saturated 21°C	Monel
	Aqueous Hot	SS316
Benzene	21°C	SS304
Bromine	21°C	Tantalum
Butadiene		Brass.304
Butane	21°C	SS304
Butylacetate		Monel
Butylalcohol		Copper
Calcium Chlorate	Dilute	SS304
Calcium Hydroxide		10%-100°C SS304
	20%-100°C	SS304
	50%-100°C	SS317
Carbon Dioxide	Dry	Steel (C1018), Monel
	Wet	Aluminium, Monel, Nickel
Chlorine Gas	Dry 21°C	SS317
	Moist 21°C	Hastalloy C
	Moist 100°C	Hastalloy C
Chromic Acid		SS316
Core Oils		SS316
Ether	21°C	SS304
Ethyl Acetate	----	Monel
Ethyl Sulphate	21°C	Monel
Ferric Sulphate	5%, 21°C	SS304
Formic Sulphate	5%, 65°C	SS304
Glycerine	21%	SS304
Hydrochloric Acid	25%, 100°C	Hastalloy B
	5%, 21°C	Hastalloy C
Hydrogen Sulphate	Wet & Dry	SS316
Iodine	21°C	Tantalum
Kerosene	21°C	SS304
Lactic Acid	10%, 100°C	Nickel
Methane	21°C	Steel (1020)
Milk	----	SS304, Nickel
Molases	----	SS304, Monel, Nickel
Natural Gas	21°C	SS304
Nitric Acid	65%, 100°C	SS316
Oxygen	Liquid	SS316
Phosphoric Acid	30%, 21°C	Hastalloy B
Potassium Acid	5%, 21°C	Hastalloy B
Potassium Chloride		5%, 21°C SS304
Propane	----	SS304
Resin	Molten	SS304
Soap	21°C	SS304
Sodium Hydroxide	----	SS316
Sulphuric Acid	0%, 100°C	Hastalloy D
Tolvene	----	Alluminium Phosphor, Bronze
Vegetable Oils	----	Steel, SS304, Monel
Zinc	Molten	Cast Iron