

GAS SAFETY AND MATERIAL COMPATIBILITY DATA CHART

GAS	HAZARDS FOR HUMANS			MATERIALS OF CONSTRUCTION								SPECIAL CHARACTERISTICS
	Toxic	Flammable	Corrosive	Aluminum	Copper	Brass	Steel	Stainless Steel	Monel®	Kel-F®	Teflon®	
Methane	◇	◇		R	R	R	R	R		R	R	
Methyl Acetylene		◇		R	N	X	R	R		R	R	
Methyl Bromide	◇	◇		X	R	R	R	R		R	R	
Methyl Chloride	◇	◇		N	X	R	R	R		R	R	Forms explosive compounds with aluminum
Methyl Mercaptan	◇	◇		R	N	X	R	R		R	R	
Monoethylamine	◇	◇		X	N	N	R	R		X	R	Attacks copper and copper alloys rapidly
Monomethylamine	◇	◇		X	N	N	R	R		X	R	Attacks copper and copper alloys rapidly
Neon				R	R	R	R	R		R	R	
Nitric Oxide	◇		◇	R	N	N	X	R	N	R	R	Readily reacts with Oxygen to form Nitrogen Dioxide
Nitrogen				R	R	R	R	R		R	R	
Nitrosyl Chloride	◇		◇	N	N	N	N	N	R		R	Very corrosive, attacks most metals except nickel
Nitrous Oxide				R	R	R	R	R		R	R	
Oxygen*				R	R	R	R	R		R	R	Strong oxidant, ignites combustible matter spontaneously
Phosgene	◇		◇	N	N	N	X	X	R	R	R	Very toxic
Phosphine*	◇	◇		R	X	X	R	R		R	R	Highly toxic, high concentrations are pyrophoric
Propane		◇		R	R	R	R	R		R	R	
Propylene		◇		R	R	R	R	R		R	R	
Silane*	◇	◇		R	R	R	R	R		R	R	Pyrophoric
Silicon Tetrafluoride	◇		◇	R	R	R	R	R		R	R	
Sulfur Dioxide	◇		◇	R	R	R	R	R		R	R	
Sulfur Hexafluoride				R	R	R	R	R		R	R	
Sulfur Tetrafluoride	◇		◇	R	R	R	R	R		R	R	
Trimethylamine	◇	◇		R	N	N	R	R		X	R	Attacks copper and copper alloys rapidly
Xenon				R	R	R	R	R		R	R	

*It is recommended that users thoroughly familiarize themselves with the specific properties of this gas.

All data presented are considered accurate and reliable but supplier assumes no liability or responsibility of any kind.

LEGEND	
◇ - Primary Hazard	N - Not Recommended
R - Recommended	X - Depends on conditions