PURE GASES

HYDROGEN CHLORIDE HCI

General Characteristics: A colorless, non-flammable and liquefied gas with a penetrating odor. Fumes in moist air. Corrosive in the presence of moisture. Health Hazards: Toxic. Attacks the mucous membranes and the eyes. Causes lung damage. Has a penetrating odor warning.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
TECHNICAL GRADE Min. Purity 99.0% (Liquid Phase)	044 016 010 LB	27.2 kg 9.1 kg 5.0 kg 227 g	Stainless-steel high purity single-stage regulator, refer to page 142 Stainless-steel lecture bottle regulator, refer to page 147

TECHNICAL INFORMATION				
Molecular Weight 36.46 Specific Volume 10.6CF/lb Fire Potential Non-flammable TLV-TWA 5 ppm (ACGIH 1991-1992) CGA Valve 330 LB 180 Dot Name Hydrogen Chloride, Anhydrous	UN No.			
For VLSI (5N) and Electronic (4N5) grades, see Electronic Gas section page 93.				

HYDROGEN FLUORIDE HF

General Characteristics: A colorless, non-flammable and liquefied gas with a penetrating odor. **Health Hazards:** Toxic. Attacks the eyes and mucous membranes.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
HIGH PURITY	044	20 kg	Stainless-steel high purity single-stage regulator, refer to page 142
Min. Purity 99.9% (Liquid Phase)	016	9 kg	

TECHNICAL INFORMATION				
Molecular Weight 20.0 Specific Volume 19.2CF/lb Fire Potential Non-flammable TLV-TWA 3 ppm (ACGIH 1991-1992) CGA Valve 679 LB 110	Dot Name Hydrogen Fluoride, Anhydrous UN No. UN1052 Dot Class. 8 Dot Label. Corrosive, Poison Cas Registry 7783-06-4 Cylinder Pressure @ 70°F 0.9 psig			
¹ Size 003 = 4"(o.d) x 16" (h)				

HYDROGEN IODIDE HI

General Characteristics: A colorless, non-flammable and liquefied gas with a penetrating odor, corrosive. **Health Hazards:** Toxic. Attacks the eyes and mucous membranes, can cause lung damage.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS EQUIPMENT RECOMMENDATION		
C. P. Min. Purity 98.0% (Liquid Phase)	LB	340 g	Stainless-steel lecture bottle regulator, refer to page 147	

TECHNICAL INFORMATION			
Molecular Weight	UN No Dot Class Dot Label Cas Registry	Hydrogen lodide, Anhydrous UN2197 2.2 Non-flammable Gas 10034-85-2 95 psig	