

PURE GASES

HELIUM He

General Characteristics: A colorless and flammable gas.

Health Hazards: A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
ULTRA HIGH PURITY Min. Purity 99.999% H ₂ O < 3 ppm, O ₂ < 5 ppm	049	8.0 m ³	Double-stage high purity regulator, refer to page 134 High purity lecture bottle regulator, refer to page 146
	044	6.0 m ³	
	016	2.0 m ³	
	010	1.3 m ³	
	LB	57 L	
HIGH PURITY Min. Purity 99.995% H ₂ O < 10 ppm, O ₂ < 10 ppm	049	8.0 m ³	
	044	6.0 m ³	
	016	2.0 m ³	
	010	1.3 m ³	
INDUSTRIAL Min. Purity 99.95% H ₂ O < 100 ppm, O ₂ < 100 ppm	049	8.0 m ³	
	044	6.0 m ³	
	016	2.0 m ³	
	010	1.3 m ³	
EXTRA HIGH PRESSURE Min. Purity 99.999% H ₂ O < 3 ppm, O ₂ < 5 ppm	6 K (6000 psig)	14.5 m ³	Piston regulator, refer to page 145

TECHNICAL INFORMATION

Molecular Weight 4.003
 Specific Volume 96.7CF/lb
 Fire Potential Non-flammable
 TLV-TWA None established
 CGA Valve 580, 3HP-677, 2HP-680
 LB 180

Dot Name Helium, Compressed or refrigerated liquid
 UN No. UN1046
 Dot Class 2.2
 Dot Label Non-flammable Gas
 Cas Registry 7440-59-7

For ULSI (6N) and VLSI (5N5) grades helium, see Electronic Gas section page 90.

HEXAFLUOROETHANE C₂F₆

- See Electronic Gas Section page 87 -