

# PURE GASES

## SULFUR HEXAFLUORIDE SF<sub>6</sub>

**General Characteristics:** A colorless, flammable, liquefied, and odorless gas.  
**Health Hazards:** A simple asphyxiant.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>- See Electronic Gases Section -</b>			
<b>VLSI GRADE</b> Min. Purity 99.995%			
<b>SUPERCritical GRADE</b> Min. Purity 99.99% O <sub>2</sub> < 10 ppm, H <sub>2</sub> O < 8 ppm CH <sub>4</sub> < 1 ppm N <sub>2</sub> < 40 ppm CF <sub>x</sub> < 25 ppm, Organics < 0.1 ppm	AL150	75 lbs	SFC / SFE care package kit, refer to pages 54
	AL30	15 lbs	
<b>INSTRUMENTAL GRADE</b> Min. Purity 99.99% (Liquid Phase)	* Equipped with full length dip tube pressurized with Helium on request.		Single-stage high purity regulator, refer to page 142
			High purity lecture bottle regulator, refer to page 148
	044	66 lbs	
	016	35 lbs	
<b>C. P. GRADE</b> Min. Purity 99.9% (Liquid Phase)	008	22 lbs	
	LB	0.5 lb	
	044	115 lbs	
	044	66 lbs	
	016	35 lbs	
	008	10 lbs	
	LB	0.5 lb	

### TECHNICAL INFORMATION

Molecular Weight ..... 146.05	Dot Name ..... Sulfur Hexafluoride
Specific Volume ..... 2.5CF/lb	UN No. .... UN1080
Fire Potential ..... Nonflammable	Dot Class ..... 2.2
TLV-TWA ..... 1000 ppm (ACGIH 1991-1992)	Dot Label ..... Nonflammable Gas
CGA Valve ..... 590	Cas Registry ..... 2551-62-4
LB..... 180	Cylinder Pressure @ 70°F ..... 320 psig

## SULFUR TETRAFLUORIDE SF<sub>4</sub>

**General Characteristics:** A colorless, nonflammable, and liquefied gas with a sharp irritating odor.  
**Health Hazards:** Toxi. Irritating to eyes and air passages. Skin contact with the liquid can cause serious burns.

GAS GRADE/PURITY SPEC.	CYLINDER SIZE	CONTENTS	EQUIPMENT RECOMMENDATIONS
<b>C. P. GRADE</b> Min. Purity 98% (Liquid Phase)	008	10 lbs	Stainless-steel high purity single-stage regulator, refer to page 144 Stainless-steel lecture bottle regulator, refer to page 149
	LB	1 lb	

### TECHNICAL INFORMATION

Molecular Weight ..... 108.1	Dot Name ..... Sulfur Tetrafluoride
Specific Volume ..... 3.6CF/lb	UN No. .... UN1956
Fire Potential ..... Nonflammable	Dot Class ..... 2.3
TLV-TWA ..... 0.1 ppm (ACGIH 1991-1992)	Dot Label ..... Poison Gas
CGA Valve ..... 330	Cas Registry ..... 7783-60-0
LB..... 180	Cylinder Pressure @ 70°F ..... 140 psig