



# Sulfur Hexafluoride

## Description

Formula: SF<sub>6</sub>

## Gas Data

Molecular Weight: 146.06  
 Density: 6.3 kg/m<sup>3</sup> @ 21.1°C, 101.325 kPa  
 0.40 lb/ft<sup>3</sup> @ 70°F, 14.696 psia  
 Specific Volume: 0.16 m<sup>3</sup>/kg @ 21.1°C, 101.325 kPa  
 2.5 ft<sup>3</sup>/lb @ 70°F, 14.696 psia

## Safety Information

Permissible Exposure Limit (TLV): 1000 ppm

## Shipping Information

CAS Registry Number: 2551-62-4  
 UN Number: UN 1080  
 ECCN Number: EAR99  
 DOT Proper Shipping Name: Sulfur Hexafluoride  
 DOT Classification: 2.2 (Nonflammable Gas)  
 DOT Label: NON-FLAMMABLE GAS  
 TC Shipping Name: Sulfur Hexafluoride  
 TC Classification: 2.2  
 TC Label: NON-FLAMMABLE GAS,  
 NON-POISONOUS GAS

## Cylinder Specifications

Cylinder Size	Valve Outlet CGA No.	Pressure psig @ 70°F	Pressure kPa @ 21.1°C	Approximate Ship Weight lb	kg
1A	590	320	2,206	247	112
1R	590	320	2,206	139	63
2	590	320	2,206	92	42
2R	590	320	2,206	81	37
3	590	320	2,206	49	22
3R	590	320	2,206	39	18
4	590	320	2,206	27	12
LB	170	320	2,206	6	3
QX	590/716	320	2,206	109	49
GX	590/716	320	2,206	81	37
UX	590/716	320	2,206	39	18

Gas Grade Purity Specifications	Product Code	Cylinder Size	Content US	Content Metric	Equipment Recommendations	Model No.	Page No.	
<b>Sulfur Hexafluoride, Research Purity 99.996%</b> <i>Guaranteed Specifications</i>	G2185534	QX	50 lb	22.68 kg	Dual Stage Reg. Single Stage Reg. LB Regulator Leak Detector Outlet Plug Wrench	Series 3120-590 Series 3530-590 Series 3550-170 8066 TW-4*	299 313 314 406 430	
	G2185539	GX	39 lb	17.69 kg				
	Air < 15 ppm	G2185552	UX	13 lb				5.90 kg
	Carbon Tetrafluoride < 30 ppm	G2185575	LB	0.5 lb				227 gm
	Water < 3 ppm							
<i>A Certificate of Lot Analysis will be provided with each cylinder at a nominal charge. Not for use in pneumatic retinopathy. *Except LB</i>								
<b>Sulfur Hexafluoride, SFC Purity 99.95%</b> <i>Guaranteed Specifications</i>	G2485218	1R	70 lb	31.76 kg	Dual Stage Reg. Single Stage Reg. Leak Detector Outlet Plug Wrench	Series 3120-590 Series 3530-590 8066 TW-4	299 313 406 430	
	G2485247	2R	39 lb	17.69 kg				
	Air < 100 ppmv	G2485259	3R	13 lb				5.90 kg
	Carbon Tetrafluoride < 100 ppmv							
<i>A Certificate of Lot Analysis will be provided with each cylinder at a nominal charge. Supplied with full length eductor tube. Can be pressurized to 1500 psig with helium. Request quotation. Not for use in pneumatic retinopathy.</i>								
<b>Sulfur Hexafluoride, CP Grade 99.8%</b>	G1186101	1A	115 lb	52.16 kg	Dual Stage Reg. Single Stage Reg. LB Regulator Leak Detector Outlet Plug Wrench	Series 81-590 Series 18-590 Series 3320-170 8066 TW-4*	293 292 302 406 430	
	G1186140	2	35 lb	15.88 kg				
	G1186150	3	10 lb	4.54 kg				
	G1186165	4	5 lb	2.27 kg				
	G1186175	LB	0.5 lb	227 gm				
<i>Liquid phase, weight/weight% A Certificate of Conformance will be provided on request. Not for use in pneumatic retinopathy. *Except LB</i>								
<b>Sulfur Hexafluoride, Dielectric Grade 99.9wt%</b> <i>Guaranteed Specifications</i>	G2671014	1A	115 lb	52.16 kg	Dual Stage Reg. Single Stage Reg. LB Regulator Leak Detector Outlet Plug Wrench	Series 1250-590 Series 18-590 Series 3320-170 8066 TW-4*	296 292 302 406 430	
	Air < 500 ppmw							
	Carbon Tetrafluoride < 500 ppmw							
	Water < 8 ppmw							
	Acidity as HF < 0.3 ppmw							
<i>Liquid phase, weight/weight% A Certificate of Conformance will be provided on request.</i>								