

Sulfur Hexafluoride (SF₆)

A colorless, odorless, nonflammable, non-reactive, nontoxic gas.

Grade	% Purity	Air (O ₂ +N ₂)	Halocarbon 14	H ₂ O	Acidity (HF)
Electronic	99.999	10	2	3	0.1 ppmw
Semiconductor ^(#)	99.99	75	25	5	0.1 ppmw
Instrument	99.99	75	25	5	0.1 ppmw
Chemically Pure (CP) Dielectric Grade ⁽¹⁾	99.8	500	500	8	0.3 ppmw

Concentrations given are ppm by volume unless otherwise specified.

Notes

⁽¹⁾ Dielectric Grade meets ASTM D-2472 specifications

^(#) Semiconductor grade valve material is brass for standard CGA connection. Cylinders can be provided with SS or DISS valves and additional proper regulator options upon request.

PRODUCT	Ordering Information					Equipment Recommendations								
	Cylinder Size	Contents lbs	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number						
Electronic	300	130	590	SH EL300	298	Single-Stage Regulator Y11-C444 * 590	A = 0-25 B = 0-50 D = 0-100	E27						
	200	115	590	SH EL200	298									
	150A	77	590	SH EL15A	298									
	80	35	590	SH EL80	298									
	35	17	590	SH EL35	298									
	Certificate of Analysis included. Vapor phase analysis								* Insert Delivery Pressure Range Code					
	Semiconductor	300	130	590	SH SM300	298	Single-Stage Regulators Y12-N145 * 580 Two-Stage Regulators Y11-N145 * 580 Y11-245 * 580	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250	E21 E20					
200		115	590	SH SM200	298									
Individual or Batch Certificate of Analysis available upon request.														
Instrument	300	130	590	SH I300	298	Single-Stage Regulators Y12-N145 * 580 Two-Stage Regulators Y11-N145 * 580 Y11-245 * 580				A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250	E21 E20			
	200	115	590	SH I200	298									
	80	35	590	SH I80	298									
	35	17	590	SH I35	298									
	Individual or Batch Certificate of Analysis available upon request. Liquid phase analysis.													
Chemically Pure Dielectric Grade ⁽¹⁾	Y	1,100	590	SH CPY	298							Single-Stage Regulators Y12-N145 * 580 Two-Stage Regulators Y11-N145 * 580 Y11-245 * 580	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250	E21 E20
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					* Insert Delivery Pressure Range Code									

Technical Data & Shipping Information

Molecular Weight	146.055
Specific Volume	2.65 cf/lb @70° F & 1 ATM
Flammability Limits in Air	Nonflammable
U.S. DOT Name	Sulfur Hexafluoride
ID Number	UN 1080
U.S. DOT Hazard Class	2.2
U.S. DOT Label	Nonflammable Gas
CAS Registry	2551-62-4

Airgas SF₆ Emission Reduction Program Save on costs while you save the environment.

That's the win-win impact of the Airgas SF₆ Emission Reduction Program particularly for utilities reporting under Subpart DD of the U.S. EPA Greenhouse Gas Reporting Rule and equipment manufacturers subject to Subpart SS reporting. As the national leader in SF₆ distribution we're also the leader in best practices for cylinder management, used product recycling and environmental/safety training.

Specially designed for the utility industry, the Airgas SF₆ Emission Reduction Program saves you money in supply costs by lowering your consumption and cylinder inventory. Our team of experts will help you maximize cylinder utilization, minimize contamination.