



SF6 Industry Specifications Sheet

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High Purity Specialty Gases

Sulfur Hexafluoride- SF₆

Technical Information	
Chemical Symbol	SF ₆
Molecular Weight	146.05
Volume	2.5 cf/lb
CAS Registry Number	2551-62-4

Shipping Information	
DOT Proper Name	Sulfur Hexafluoride
Class:	2.2
UN Number	1080
Label:	Non-Flammable Gas

Component	ASTM 2472 D	IEC 376	ASG TYPICAL
Sulfur Hexafluoride (by wt.)	≥ 99.8%	≥ 99.8%	≥ 99.9%
Water (vol. %)	≤ 8 ppmv	≤ 15 ppmv	≤ 5 ppmv
Dew Point	-62°C	-40°C	-65°C
Hydrolyzable Fluorides (HF)	≤ 0.3 ppmw	≤ 1.0 ppmw	≤ 0.3 ppmw
Air (wt. %)	≤ 500 ppmw	≤ 500 ppmw	≤ 200 ppmw
Carbon Tetrafluoride (CF4) (wt. %)	≤ 500 ppmw	≤ 500 ppmw	≤ 200 ppmw

Recommended Regulators (CGA 590 ¼ NPTM Outlet)	
Part Number	Description
2021312-01-590	3000PSI INLET 0-30PSI OUTLET
2022312-01-590	3000PSI INLET 0-60PSI OUTLET
2023312-01-590	3000PSI INLET 0-200PSI OUTLET

Cylinder Specifications								
Cylinder Fill (Max Fill SF6 Gas)	Cylinder Size	D.O.T. Spec & Rating	Approx. Oxygen Capacity in C.F. @ 70°F	O.D	Length *1	Wall	Weight *2	Water Capacity
				Inches	Inches	Inches	Lbs.	Cu. In.
				MM	MM	MM	KG	Liters
5LB	D	3-AA-2015	17/19	4.20	16.75	0.095	8.50	185
				106.00	425	2.41	3.85	3.03
18LB	40cf	3-AA-2015	40/44	7.00	17.50	0.175	25.00	480
				178.00	444	4.45	11.34	7.87
28LB	55cf	3-AA-2015	55/61	7.00	22.50	0.175	34.00	660
				178.00	571	4.45	15.42	10.82
38LB	80cf	3-AA-2015	80/88	7.00	31.00	0.175	44.00	960
				178.00	787	4.45	20.00	15.74
57.5LB	110cf	3-AA-2015	110/122	7.00	42.00	0.175	60.00	1320
				178.00	1066	4.45	27.30	21.65
115LB	220cf	3-AA-2015	228/251	9.00	51.00	0.240	113.00	2650
				228.6	1282.7	6.10	51.40	43.40
	220cf	3-AA-2265	256/281	9.00	51.00	0.240	113.00	2650
				228.6	1282.7	6.10	51.40	43.40

Custom fill available upon request