

Transportation Information



UN Number: 2203

Shipping Name	USA	Canada	Mexico
Shipping Name	Silane	Silane, Compressed	Silane
Hazard Class	2.1	2.1	2.1
Label	Flammable Gas	Flammable Gas	Flammable Gas

(M)SDS Reference

P-4649

CAS Number

7803 - 62 - 5

General Description

Colorless, pyrophoric, flammable gas with a repulsive odor.

Product/Grade	Purity	Part Number	Cylinder	Ar	O ₂	CO ₂	CO	Total Chlorosilanes	He	Disilane
Semiconductor, 6.0	99.9999%	SI 6.0SP	K	0.05	0.06	0.05	0.05	0.15	1	0.5
Semiconductor, 4.7	99.997%	SI 4.7SP	K	1	0.1	0.5	0.5	0.5	5	-

Concentrations given are ppm by volume unless otherwise specified. Maximum ppm unless otherwise noted.

Product/Grade	Purity	Part Number	Cylinder	H ₂	CH ₄	N ₂	H ₂ O	Disiloxane	Methylsilane	Resistivity
Semiconductor, 6.0	99.9999%	SI 6.0SP	K	20	0.05	1	0.5	0.5	0.5	>= 10000 ohm-cm
Semiconductor, 4.7	99.997%	SI 4.7SP	K	100	0.5	5	2	-	-	>= 7500 ohm-cm

Concentrations given are ppm by volume unless otherwise specified. Maximum ppm unless otherwise noted.

⁽¹⁾ C₂, C₃, C₄ = C₂H₆; C₃H₈; C₄H₁₀.

Semiconductor (from polysilicon deposited silane)

Component	Specification Semiconductor 6.0	Specification Semiconductor 4.7
C	0.2 ppm/a	0.4 ppm/a
P	20 ppt/a	100 ppt/a
B	20 ppt/a	40 ppt/a
As	5 ppt/a	20 ppt/a
Al	5 ppt/a	20 ppt/a
Ga, Sb, In	5 ppt/a each	20 ppt/a each
Fe + Cr + Ni + Cu + Zn	1 ppb/a	-



Due to code regulations full containment within a gas cabinet is required for Silane.

See our complete line of gas cabinets, process panels, and controllers (pages E-304 - E-309).

Cylinders

Cylinder Type	Style	Size in (cm)	Connection CGA/DISS	Pressure psig (bar)	Volume lb (kg)	Gross Weight lb (kg)
K	High Pressure Steel	51 x 9 (129.5 x 22.9)	350/632	1040 (72)	22 (10)	155 (70)
K	High Pressure Steel	51 x 9 (129.5 x 22.9)	350/632	1040 (72)	11 (5)	144 (65)