

PURE GASES

SILANE

TRANSPORT INFORMATION:
UN No. 2203



Shipping Name: Silane, Compressed Silane Silane, Compressed

Hazard Class: 2.1 2.1 2.1

Label: Flammable Gas Flammable Gas Flammable Gas

EMPIRICAL FORMULA: SiH_4

CHEMICAL FORMULA:

MSDS REFERENCE: 4649

CAS No.: 7803 - 62 - 5

GENERAL DESCRIPTION:

Colorless, pyrophoric, flammable gas with a repulsive odor.

Product and Package Information

PART NO.	PRODUCT GRADE	QUALITY ASSAY/SPECIFICATION	CYLINDER STYLE	CONTENT ft ³ / m ³	EQUIPMENT RECOMMENDATIONS SEE REGULATOR REFERENCE GUIDE
SI 6.0SP	6.0	99.9999 %	AT	5000 g	700 SERIES : Semiconductor
	SEMICONDUCTOR PROCESS GAS	$\text{O}_2 < 0.05 \text{ ppm}$ $\text{H}_2\text{O} < 0.5 \text{ ppm}$ $\text{N}_2 < 1 \text{ ppm}$ $\text{CO}_2 < 0.05 \text{ ppm}$ $\text{CO} < 0.05 \text{ ppm}$ $\text{Ar} < 0.05 \text{ ppm}$ $\text{SiCl}_4 < 0.15 \text{ ppm}$ $\text{Si}_2\text{H}_6 < 0.5 \text{ ppm}$ $\text{He} < 1 \text{ ppm}$ $\text{H}_2 < 20 \text{ ppm}$ $\text{CH}_4 < 0.05 \text{ ppm}$ Resistivity $> 10,000 \text{ Ohm-cm}$ ppb/a - trace metals analysis are available	SS	5000 g 10000 g	400 SERIES : Corrosive 455 SERIES : Special Purpose
SI 5.0SP	5.0	99.999 %	UK	13000 g	700 SERIES : Semiconductor
	SEMICONDUCTOR PROCESS GAS	$\text{O}_2 < 0.1 \text{ ppm}$ $\text{H}_2\text{O} < 2 \text{ ppm}$ $\text{N}_2 < 2 \text{ ppm}$ $\text{CO}_2 < 0.5 \text{ ppm}$ $\text{CO} < 0.5 \text{ ppm}$ $\text{Ar} < 0.5 \text{ ppm}$ $\text{SiCl}_4 < 0.5 \text{ ppm}$ $\text{He} < 1 \text{ ppm}$ $\text{CH}_4 < 0.5 \text{ ppm}$ Resistivity $> 7500 \text{ Ohm-cm}$ ppb/a - trace metals analysis are available	UK AS AS	5000 g 9000 g 5000 g	400 SERIES : Corrosive 455 SERIES : Special Purpose

SILANE

PART NO.	PRODUCT GRADE	QUALITY ASSAY/SPECIFICATION	CYLINDER STYLE	CONTENT ft ³ / m ³	EQUIPMENT RECOMMENDATIONS SEE REGULATOR REFERENCE GUIDE
SI 4.0SP	4.0 SEMICONDUCTOR PROCESS GAS	99.99 % O ₂ < 1 ppm H ₂ O < 3 ppm N ₂ < 20 ppm CO ₂ < 1 ppm CO < 1 ppm Ar < 15 ppm SiCl _x < 1 ppm He < 30 ppm H ₂ < 200 ppm CH ₄ < 1 ppm Resistivity > 5000 Ohm-cm	T K	10000 g 5000 g	700 SERIES : Semiconductor 400 SERIES : Corrosive 455 SERIES : Special Purpose

For ordering purposes, please add the desired cylinder style to the end of the above part number.

SEE SECTIONS G AND H FOR SAFETY AND TECHNICAL INFORMATION.

Cylinder Information

CYLINDER STYLE / CGA	PRESSURE psig / kPa, gauge	GROSS WEIGHT lb / kg
AT / 350	1040 / 7170	114 / 52
T / 350	1029 / 7095	167 / 76
UK / 350	1365 / 9067	164 / 74
UK / 350	780 / 5378	146 / 66
K / 350	780 / 5378	146 / 66
SS / 350 / 632	976 / 6729	123 / 56
AS / 632	1410 / 9721	70 / 32
AS / 350	945 / 6515	61 / 28

For additional information on our semiconductor process gases, see Section E - Semiconductor.

Other cylinder sizes available.

Praxair, high quality specialty gases and equipment for your applications.

