

SULFUR HEXAFLUORIDE (SF₆)

Synonyms : Sulfur fluoride



AIR LIQUIDE

Gas Description

Carbon Monoxide is a colourless, odourless, non-flammable, non-corrosive and slightly toxic gas with a gas density at STP 6.27 kg/m³.

Typical applications :

Manufacture of insulating gases
Insulating medium in high voltage applications
Leak detection and tracing
Metallurgy of magnesium and aluminum
Carrier gas in gas chromatography

Transport Regulations :

UN Number : 1080
Shipping Name : SULFER HEXAFLUORIDE
Class : 2.2 : Non-Toxic / Non-Flammable
CAS Number : 2551-62-4
Hazchem : 2RE

[Click here](#) for MSDS

[Click here](#) for more information

Physical Properties

Chemical symbol : SF₆
Molecular weight : 146.05
Specific gravity (Air=1) : 5.114
Specific volume (m³/kg) : 0.16
Critical temperature : 46°C
Boiling point : -63.9°C

Melting Point : NDA
Critical pressure (bar) : 37.62
Major hazards : High Pressure / Suffocation
Toxicity : TWA 1000ppm STEL
Flammability Range: Non-Flammable
Odour : None

[Click here](#) for more information

Application

INDUSTRY

Electronics

APPLICATION

In semiconductor manufacturing, SF₆ is a fluorine source for high density plasma etching without generating carbon by-products. SF₆ can be used for etching metal silicides, nitrides and oxides vs. their metal substrates.

Other

Sulfur Hexafluoride is an insulating material used as a dielectric in electrical transformers. It can be used as an inert blanketing agent. It is a tracer gas for determining ventilation rates and air movements in buildings

[Click here](#) for more information

SULFUR HEXAFLUORIDE (SF₆)

Synonyms : Sulfur Fluoride



AIR LIQUIDE

Sulfur Hexafluoride : Instrument

Min Purity 99.97%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
Air	< 100ppm	44	CGA 590	2,100	52.2
CF ₂	< 120ppm	16			18.2
Moisture	< 1.4ppm	LB	CGA180		0.2

Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

For further information [Contact](#) the specialty gases representative in your region.

Sulfur Hexafluoride : CP

Min Purity 99.8%

<u>Gas</u>		<u>Cylinder information</u>			
Typical impurities (ppm molar)		Cylinder Size	Valve Connection	Pressure (kPa)	Contents (m ³)
		44	CGA 590	2,100	52.2
		16			18.2
		LB	CGA180		0.2

Recommended Equipment

Single stage chrome plated brass body regulator with a stainless steel diaphragm.

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