



Clean Gas FC-116

Clean Gas Hexafluoroethane



Technical Data

Appearance: Colorless and odorless gas

UN Number: 2193

CAS Number: 76-16-4

Liquefied gas

* Refer to MSDS for detailed information on the properties and safety of the product.

Specification

Purity	vol%	Min. 99.999
O ₂ + Ar	volppm	Max. 2
N ₂	volppm	Max. 10
CH ₄	volppm	Max. 0.7
CO	volppm	Max. 0.7
CO ₂	volppm	Max. 0.7
H ₂ O	volppm	Max. 3.0
Acids as HF	volppm	Max. 0.1
CF ₄	volppm	Max. 2.0
Other fluorocarbons	volppm	Max. 5.0
Particle	Not smaller than 0.1 micrometer	Max. 60/C.F.



Cylinder

Item		10L cylinder	47L cylinder
Size	Inside diameter	140mm	232mm
	Height (to the neck portion)	850mm	1370mm
	Height (with a protective cap) *	1000mm	1520mm
Loading weight		8kg	35kg, 40kg
Material		Manganese steel (Clean-S-treated)	

* Estimated values for when a standard valve is mounted on a standard cylinder. The accuracy of these values is not guaranteed.

Valve

Nozzle size	22 mm X 14 right-hand threads
Material	SUS316L

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Physical & Chemical Properties

Item	Unit	Data
Chemical formula		C ₂ F ₆
Molecular weight		138.01
Boiling point		- 78.15
		- 108.8
Melting point		- 101
Specific gravity (air: 1)		4.823
Liquid density (0° C, saturated liquid)	kg/L	1.109
Gas density	g/L	—
Critical temperature		19.65
Critical pressure	MPa	3.2
	kg/cm ²	32.6
Flammability		Not applicable
Toxicity		Not applicable
Latent heat of vaporization (0° C, 1013 MPa)	kJ/kg	117.0
Maximum permissible concentration (ACGIH)	ppm	—
Explosive limit (in air)		—

Temperature - Vapor Pressure Curve

