



Clean Gas HFC-23

Clean Gas Trifluoromethane



Technical Data

Appearance: Colorless and odorless gas

UN Number: 1984

CAS Number: 75-46-7

Liquefied gas

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

Specification

Purity	vol%	Min. 99.999
Water	volppm	Max. 8
Acids as HCl	volppm	Max. 0.2
Other fluorocarbons	volppm	Max. 10
Air	volppm	Max. 20
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		6kg	20kg
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		CF ₃
Molecular weight		70.01
Boiling point		- 82.05
		- 115.6
Melting point		- 155
Liquid density (0° C, saturated liquid)	kg/L	1.029
Gas density (0° C, saturated liquid)	g/L	112.8
Specific gravity (air: 1)		2.417
Critical temperature	MPa	4.87
	kg/cm ²	49.7
Critical pressure		25.65
Flammability		Not applicable
Toxicity		Not applicable
Latent heat of vaporization (0° C, 1013 MPa)	kJ/kg	143.4
Maximum permissible concentration (ACGIH)	ppm	—
Explosive limit (in air)		—

Temperature - Vapor Pressure Curve

