

HALOCARBON 116 - (C₂F₆)

3.6

DESCRIPTION : (Hexafluoroethane) A colorless, non flammable gas shipped as a nonliquefied gas at its vapor pressure of 30,3 Barg at 21° C.	APPLICATIONS : A particularly versatile etchant for many substrates, halocarbon 116 can be used for selectively etching polysilicon versus SiO ₂ . Metal silicides and oxides are selectively etched versus their metal substrates, and photoresist stripping has been accomplished with added O ₂ . With its low F-to-C ratio, C ₂ F ₆ is also used for selective etching of SiO ₂ over silicon. Ask your local Praxair semiconductor gases applications specialist for additional information.	ADR Item No. : 2, 1 A
		ADR Label 2.2 Non flammable, non toxic gas
		MSDS REFERENCE : 064
		CHEMICAL ABSTRACTS : 76-16-4
		UN No. : 2193

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
50H	52 kg	30,3	Diaphragm	6	Brass

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
MINIMUM PURITY	99,96 %	
Acidity (HCl)	≤ 0,1 ppm/w	N
Carbon Monoxide (CO)	≤ 5 ppm	A
Carbon Dioxide (CO ₂)	≤ 5 ppm	A
Other Halocarbons	≤ 50 ppm	H
Nitrogen (N ₂)	≤ 100 ppm	A
Oxygen (O ₂)	≤ 25 ppm	A
Water (H ₂ O)	≤ 10 ppm	E

Sum total of all impurities not to exceed 1000 ppm

Notes :

- Other halocarbons defined as halocarbons 13, 22, 23, 114 and 115.

<ul style="list-style-type: none"> ◆ Cylinder sizes, contents, valve types and valve connections other than those indicated above are available on request. ◆ All expressions for concentration are for gas phase, by volume unless otherwise noted. ◆ MSDS Ref.: More detailed Safety Information can be obtained from the Material Safety Data Sheet No. 064

Key to Analytical Techniques			
A	Gas Chromatograph with Thermal Conductivity Detector	D	Specific Oxygen Analyzer
B	Gas Chromatograph with Flame Ionization Detector	E	Specific Water Analyzer
C	Gas Chromatograph with Ultrasonic Detector	F	Total Hydrocarbon Analyzer
		G	Infrared
		H	Proprietary
		I	Gas Chromatograph with Helium Ionization Detector
		J	Flame Ionization with Methanizer
		K	Gas Chromatograph - Photo Ionization
		L	Gas Chromatograph - Flame Photometric
		M	Mass Spectrometry
		N	Wet Chemical
		O	Gas Chromatograph with Discharge Ionization Detector
		P	Gas Chromatograph with Methanizer Carbonizer
		Q	Gas Chromatograph with Electrolytic Conductivity
		R	Gas Chromatograph with Reduction Gas Analyzer
		S	Gaschromatograph with High Frequency Discharge Detector

IMPORTANT

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