

NITROGEN TRIFLUORIDE - (NF₃) 4.0

DESCRIPTION : A colorless, toxic, non flammable, gas shipped in cylinders at high pressure.	APPLICATIONS : Plasma and thermal cleaning of CVD reactors.	ADR Item No. : 2, 1 O
		ADR Label 2.2 : Non flammable, non toxic gas Label 5.1 : Oxidising substance
		MSDS REFERENCE : 091
		CHEMICAL ABSTRACTS : 7783-54-2
		UN No. : 2451

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
50H	22 kg	94	Diaphragm	8	316L SS

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
MINIMUM PURITY	99,99 %	
Carbon Dioxide (CO ₂)	≤ 3 ppm	A
Halocarbon 14 (CF ₄)	≤ 40 ppm	A
Acidity (HF)	≤ 1 ppm	N
Nitrogen (N ₂)	≤ 5 ppm	A
Nitrous Oxide (N ₂ O)	≤ 3 ppm	A
Oxygen (O ₂)	≤ 5 ppm	A
Sulfur Hexafluoride (SF ₆)	≤ 10 ppm	A
Water (H ₂ O)	≤ 3 ppm	E
Carbon Monoxide (CO)	≤ 5 ppm	A

Notes :

- ◆ 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. 091

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	Gas Chromatograph with High Frequency Discharge Detector

IMPORTANT

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