

Nitrogen Trifluoride NF₃

ULSI Grade: 99.9+%



Description

Nitrogen Trifluoride is used to provide a fluorine or nitrogen fluoride free radical source for chamber cleaning of semiconductor process chambers. Nitrogen Trifluoride is an oxidizing, toxic gas with a TLV of 10 ppm.

Physical Constants	
Chemical formula	NF ₃
Molecular weight	71.002
Specific volume @ +70°F (+21.1°C)	5.45 ft ³ /lb, 0.34 m ³ /kg
Critical pressure	657.02 psia, 45.3 bar
Critical temperature	-38.7°F, -39.3°C
Specific gravity @ 70°F, 1 atm (Air=1)	2.452

Maximum Impurities	
COMPONENT	CONCENTRATION (ppmv)
Argon + Oxygen	<50.0
Carbon Dioxide	<10.0
Carbon Monoxide	<10.0
Carbon Tetrafluoride	<700
Hydrolizable Fluorides	<1.0
Moisture	<1.0
Nitrogen	<50.0
Nitrous Oxide	<10.0
Sulphur Hexafluoride	<25.0

Cylinder Specifications*		Contents		Pressure	
Cylinder	Valve Outlet Options	Pounds	KG	PSIG	BAR
1	CGA 330 DISS 640	50	22.7	1475	102.7

*Additional cylinder sizes and/or valve outlets are available.

www.spectragases.com

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