



Nitrogen Trifluoride (NF₃)

Specifications

	GRADE 2.7	GRADE 4	GRADE 4.5
Purity	99.7%	99.99%	99.995%
Oxygen		< 10 ppmv	< 5 ppmv
Oxygen and Argon	< 700 ppmv		
Nitrogen	< 700 ppmv	< 10 ppmv	< 5 ppmv
Carbon Dioxide	< 25 ppmv	< 10 ppmv	< 3 ppmv
Carbon Monoxide	< 25 ppmv		< 0.5 ppmv
Water	< 1 ppmv	< 1 ppmv	< 1 ppmv
Carbon Tetrafluoride	< 1,500 ppmv	< 40 ppmv	< 25 ppmv
Nitrous Oxide	< 50 ppmv	< 10 ppmv	< 2 ppmv
Acidity (HF)	< 1 ppmv	< 5 ppmv	< 1 ppmv
Sulfur Hexafluoride	< 50 ppmv		< 1 ppmv

Note: Moisture level guaranteed only when EFC Gases & Advanced Materials prepares the cylinders. All concentrations are on a mol/mol basis unless otherwise stated.

Cylinder Sizes

SIZE	FILL WEIGHT (LB)
Tube Trailer	17,637
49L/Size 300	50
44L/Size 200	44

Technical Data

Molecular Weight: 71.00 g/mol
 Specific Volume: 5.4 cu.ft/lb
 Pressure @ 70°F: 1450 psig
 Valve Outlet: CGA 670 DISS 640

Shipping Information

DOT Name: Nitrogen Trifluoride
 Hazard Class: 2.2
 DOT Number: UN 2451
 DOT Label: Non-flammable Gas & Oxidizer
 CAS Number: 7783-54-2