

Nitrogen Trifluoride NF₃

Physical Constants of Gas

Molecular Weight 71.0
 Specific Volume 5.4 CF/lb. (0.33 m³/kg)
 Boiling Point -200°F (-128.9°C) 1 atm
 Gas Density 70°F 1 atm 3.003 kg/m³

Cylinder Data

CGA Valve Outlet 330, 640

Shipping Data

Shipping Class 70
 DOT/TC Name Nitrogen Trifluoride
 DOT Class 2.2 (Nonflammable Gas)
 TC Class 2.2 (5.1) Nontoxic,
 Nonflammable Gas (Oxidizer)
 WHMIS Class AC
 DOT Label Nonflammable Gas, Oxidizer
 CAS Registry No. 7783-54-2
 UN No./ATA No. UN2451

Safety Information

High-pressure oxidizing gas.
 Vigorously accelerates combustion.
 Can be fatal even with adequate oxygen.

Specifications									Recommended Equipment	
Grade	Purity (Minimum)	Size	Contents		Pressure		Weight		Description Model Number	Page
			lbs.	kg	psig	bar	lbs.	kg		
Electronic Grade 2 CF ₄ < 40 ppm CO ₂ < 3 ppm H ₂ O < 1 ppm HF < 1 ppm N ₂ < 5 ppm N ₂ O < 3 ppm O ₂ < 5 ppm SF ₆ < 1 ppm	99.99%	44	44	20	1450	100	179	81	Application Dependent – Please Inquire	—
Electronic Grade 1 CF ₄ < 40 ppm CO < 1 ppm CO ₂ < 10 ppm H ₂ O < 10 ppm N ₂ < 30 ppm N ₂ O < 10 ppm O ₂ < 20 ppm SF ₆ < 15 ppm	99.95%	44	44	20	1450	100	179	81	Application Dependent – Please Inquire	—

Most SCOTT™ gas handling and distribution equipment is available for same-day shipping.