

Technical Specifications of Nitrogen Gas



Technical Specification	Value / Description
Chemical Formula	N2
Molar Mass	28 g/mol
Physical State	Gas (at ambient temperature)
Color	Colorless
Odor	Odorless
Boiling Point	-195.8 °C
Melting Point	-210 °C
Density (at 0 °C and 1 atm)	Approx. 1.251 kg/m³
Cylinder Working Pressure	Typically 150–200 bar
Purity	Typically 99.9% or higher
Flammability	Non-flammable, but strongly supports combustion in high-energy engines
Main Applications	Industrial use, welding, storage of sensitive materials, shielding in welding