Gas Properties - Nitrogen

Gas Name	Chemical Formula	Chemical Family
Nitrogen	N ₂	Inert Gas
Synonym(s)	Nitrogen NF	

Molecular Weight	Critical Pressure (psia)	Critical Temperature (R)	Ratio of Specific Heats		
28.010	493	227	1.404		
Physical Characteristics		Solubility			
Colorless, Odorless		Slightly soluble in water and alcohol.			
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Applications or Uses

Fertilizer Production, Purge Gas, Injection

Hazards

Asphyxiant. Titanium will burn in the presence of pure nitrogen.

Material Requirements

Non-corrosive. Standard materials of construction. Piston rings, riders and packing rings need to be reviewed.

Lubrication

Standard guidelines for air apply.

Comments

Closely monitor discharge temperature. Bone dry nitrogen can cause problems with packing, rings, and wear bands. Ensure that materials are selected for the specific moisture content.