Typical Nitrogen Purity Levels by Industry

The following is a list of common applications and typical purities based on over 4,000 NOXERIOR/NOVAIR references deployed in over 150 countries across the globe. Contact sales@cagtech.com for more info.

Electronic Assembly

<u>Application</u>

Lead free solder processes Wave, reflow or selective soldering

Dry box storage

De-ionized water storage

Burn-in ovens Parts cleaning

Adhesive blanketing

Food & Beverage

On average, this application uses a nitrogen purity of 98-99.5%

Snack food packaging

Salad and fruit packaging

Coffee packaging

Edible oil blanketing

Flavorings blanketing

Dairy packaging

Wine blanketing, transfer, and bottling

Modified atmosphere packaging

Metal Industry

<u>Application</u>	Purity (N2)
Aluminum degassing	97-99%
Aluminum extrusion	99-99.5%
Laser cutting	99-99.999%
Laser bellows purge	97-99%
Heat treating	95-99%
Additive manufacturing	97-98%

Oil, Gas and Petrochemical

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Fire/explosion prevention Inert blanketing

Paint blanketing

Inert transfer in enhanced oil recovery

Pressurizing Riser Tensioners

Gas Seals

Pharmaceutical Industry

<u>Application</u>

Chemical product transfer
Chemical and DI water blanketing

Product packaging

Plastics

<u>Application</u>	Purity (N2)			
Injection molding	95-99%			
Gas assist injection molding	99.5%			
Blown film extrusion	98-99.5%			

Power Generation

Application
Purging mechanical gas seals
Boiler layup

Purging natural gas lines
Demineralized water blanketing

Others

Application
Mine inerting
Automotive paint blanketing/spray
Gold refining

Museum/artifact preservation

Purity (N2)

(99.999 to 99.99% N2) (99.999 to 99.99% N2)

(95-99%) (98-99%) (97-99.99%) (95-98%)

(99.5%)

Use

Remove H₂

Prevent carburization

Blow off dross and minimize at the cut Purge bellows so the dust stays off mirrors

Inert atmosphere Inert atmosphere

Purity (N2)

95-99% 95-99% 98% 98% 98% 95-97%

Purity (N2) 97-99.99%

97-99.99% 97-99.99%

<u>Use</u>

Prevent carburization, purge pellet hopper Pack out parts and eliminate shrinkage

Purging, spray dry products

Purity (N2)

95-98% 99.6% 95-98% 95-98%

Purity (N2)

95-99% 95-98% 99.99% 95%