

Nitrogen

A colorless, odorless, chemically inert gas.

| Technical Information: | |
|------------------------|----------------------------------------------------|
| Chemical Symbol: | N ₂ |
| Molecular Weight: | 28.01 |
| Specific Volume: | 13.8 ft ³ /lb (0.86 m ³ /kg) |
| CAS Registry Number: | 7727-37-9 |

| Shipping Information: | |
|-----------------------|----------------------|
| DOT Proper Name: | Nitrogen, Compressed |
| Hazard Class: | 2.2 |
| I.D. Number: | UN 1066 |
| Labels: | Nonflammable Gas |

| Grade | Part No. | Purity | Impurity | Specification | Equipment Recommended |
|--------------------------------|------------|----------|----------------------------------------------------------------|--------------------------------------------------|--------------------------------------|
| 6.0 (Research) | NIT-60-XXX | 99.9999% | Oxygen Moisture Total Hydrocarbons CO/CO ₂ | < 0.2 ppm < 0.2 ppm < 0.10 ppm 0.10 ppm | 400 series stainless steel regulator |
| 5.0 (Ultra High Purity) | NIT-50-XXX | 99.999% | Oxygen Moisture Total Hydrocarbons | < 2 ppm < 3 ppm < 0.5 ppm | 300 series brass regulator |
| 4.8 (Prepurified) | NIT-48-XXX | 99.998% | Oxygen Moisture | < 5 ppm < 5 ppm | 300 series brass regulator |
| Zero 4.8 | NIT-48-XXX | 99.998% | Total Hydrocarbons | < 0.5 ppm | 300 series brass regulator |
| O₂ Free 4.8 | NIT-OF-XXX | 99.998% | Oxygen | < 0.5 ppm | 300 series brass regulator |

XXX - Complete the part number with the desired cylinder size listed below. (ie. NIT-60-300)

| Standard Cylinder Sizes * | Contents ft ³ /m ³ | Cylinder Pressure PSIG | CGA Valve Connection |
|---------------------------|------------------------------------------|------------------------|----------------------|
| 300 | 304 | 2640 | 580 |
| 200 | 228 | 2200 | 580 |
| 80 | 76 | 2200 | 580 |

*Nonstandard cylinder sizes available upon request