

## Argon

A chemically inert, colorless, odorless, nontoxic gas.

| Technical Information: |  |
|------------------------|--|
| Chemical Symbol:       | Ar   |
| Molecular Weight:      | 39.948   |
| Specific Volume        | 9.7 ft <sup>3</sup> /lb (0.606 m <sup>3</sup> /kg) |
| CAS Registry Number:   | 7440-37-1  |

| Shipping Information: |                   |
|-----------------------|-------------------|
| DOT Proper Name:      | Argon, Compressed |
| Hazard Class:         | 2.2               |
| I.D. Number:          | UN 1006           |
| Labels:               | Nonflammable Gas  |

| Grade                                     | Part No.  | Purity   | Impurity   | Specification  | Equipment Recommended                    |
|---|-----------|----------|--|--|--|
| <b>PurityPlus 6.0 (Research)</b>          | ARG-60-XX | 99.9999% | Oxygen<br>Moisture<br>Nitrogen<br>Total Hydrocarbons<br>CO/CO <sub>2</sub> | < 0.15 ppm<br>< 0.15 ppm<br>< 0.40 ppm<br>< 0.10 ppm<br>< 0.10 ppm | 400 series stainless steel regulator     |
| <b>PurityPlus N<sub>2</sub> Free 5.0</b>  | ARG-NF-XX | 99.999%  | Oxygen<br>Moisture<br>Nitrogen<br>Total Hydrocarbons                       | < 2 ppm<br>< 2 ppm<br>< 5 ppm<br>< 0.5 ppm                         | 300 series brass regulator               |
| <b>PurityPlus 5.0 (Ultra High Purity)</b> | ARG-50-XX | 99.999%  | Oxygen<br>Moisture<br>Total Hydrocarbons                                   | < 2 ppm<br>< 2 ppm<br>< 0.5 ppm                                    | 300 series brass regulator               |
| <b>PurityPlus 4.8 (Prepurified)</b>       | ARG-48-XX | 99.998%  | Oxygen<br>Moisture<br>Total Hydrocarbons                                   | < 5 ppm<br>< 5 ppm<br>< 2 ppm                                      | 300 series brass regulator               |
| <b>PurityPlus Zero 4.8</b>                | ARG-ZE-XX | 99.998%  | Total Hydrocarbons   | < 0.5 ppm  | 300 series brass regulator               |
| <b>PurityPlus 4.8 (6000 PSIG)</b>         | ARG-6K    | 99.998%  | Oxygen<br>Moisture   | < 10 ppm<br>< 5 ppm  | 492 series ultra high pressure regulator |

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

| Standard Cylinder Sizes * | Contents ft <sup>3</sup> /m <sup>3</sup> | Cylinder Pressure PSIG | CGA Valve Connection |
|---------------------------|--|------------------------|----------------------|
| 300                       | 337 / 9.37                               | 2640                   | 580                  |
| 200                       | 250 / 6.79                               | 2200                   | 580                  |
| 80                        | 83 / 2.3                                 | 2200                   | 580                  |
| 6K                        | 575 / 15.94                              | 6000                   | 677                  |

\*Nonstandard cylinder sizes available upon request