



# HYDROGEN H<sub>2</sub>

*Colorless, odorless, flammable gas.*

## SHIPPING INFORMATION

D.O.T. Proper Shipping Name: Hydrogen, compressed  
 I.D. Number: UN1049  
 Hazard Class: 2.1  
 Shipping Labels: Flammable Gas

## TECHNICAL INFORMATION

Molecular Weight: 2.016  
 Specific Volume: 191.7 ft<sup>3</sup>/lb.  
 CAS Registry: 7333-74-0  
 Safety Data Sheet Reference: Hydrogen

## PRODUCT GRADE SPECIFICATIONS

| Grade Name        | Grade | Minimum Purity | Grade Code | Catalog Number <sup>1</sup> | Maximum Impurity Specifications in PPM by volume<br>(unless otherwise specified) <sup>2</sup> |                  |                              |                    |                |     |                 |
|-------------------|-------|----------------|------------|-----------------------------|-----------------------------------------------------------------------------------------------|------------------|------------------------------|--------------------|----------------|-----|-----------------|
|                   |       |                |            |                             | O <sub>2</sub>                                                                                | H <sub>2</sub> O | THC<br>(as CH <sub>4</sub> ) | CO+CO <sub>2</sub> | N <sub>2</sub> | CO  | CO <sub>2</sub> |
| Research          | 6.0   | 99.9999%       | RES        | SG HYRES-                   | 0.2                                                                                           | 0.5              | 0.1                          | 0.1                | 0.3            |     |                 |
| Ultra Carrier     | 5.5   | 99.9995%       | UC         | SG HYUC-                    | 0.5                                                                                           | 2                | 0.2                          |                    | 2              | 0.2 | 0.1             |
| Lab & Spec        | 5.5   | 99.9995%       | LSG        | SG HYLSG-                   | 1                                                                                             | 1                | 0.5                          | 1                  | 3              |     |                 |
| Ultra High Purity | 5.0   | 99.999%        | UHP        | SG HYUHP-                   | 2                                                                                             | 3                | 0.5                          |                    | 8              |     |                 |
| High Purity       | 4.5   | 99.995%        | HP         | SG HYHP-                    | 5                                                                                             | 5                |                              |                    |                |     |                 |

**Notes:**

<sup>1</sup> Complete the catalog number by selecting cylinder size code using chart below. Except for Disposables, "SG" will be replaced with "DSP".

<sup>2</sup> Specifications are typical results and are subject to change without notice.

## CYLINDER INFORMATION

| Cylinder Size                              | Cylinder Size Code | Volume <sup>3</sup><br>ft <sup>3</sup> | Pressure (PSIG)<br>@ 70° F. | Valve Connection CGA | Gross Weight (lbs.) |
|--------------------------------------------|--------------------|----------------------------------------|-----------------------------|----------------------|---------------------|
| <b>Carbon Steel Cylinders</b>              |                    |                                        |                             |                      |                     |
| 300                                        | T                  | 258                                    | 2400                        | 350                  | 145                 |
| 200                                        | K                  | 193                                    | 2000                        | 350                  | 136                 |
| 80                                         | Q                  | 66                                     | 2000                        | 350                  | 65                  |
| 35                                         | G                  | 32                                     | 2000                        | 350                  | 30                  |
| <b>Disposable Non-Refillable Cylinders</b> |                    |                                        |                             |                      |                     |
| Lecture Bottle                             | LB*                | 2                                      | 1800                        | *170 or *350         | 4                   |

**Notes:** <sup>3</sup> This product is sold by the cylinder. Fill volumes are approximate and may vary slightly depending on the cylinder manufacturer's specifications.

**Also available in other packaging such as:**

- 6Packs & 15Packs in select sizes and grades.
- Bulk & Tube Trailers available.

*Contact your WestAir representative about equipment recommendations for this product.*