

Hydrogen H₂

Technical Data

Molecular Weight	2.02
Boiling Point	- 423.0° F
Specific Volume	191.3 cf/lb
Critical Temperature	- 399.96° F
Critical Pressure	190.8 psia

Safety Data

Flammable Limits	4.0-75% in Air
Toxicity	Simple asphyxiant
Compatibility	Noncorrosive

Shipping Data

DOT Name	Hydrogen, Compressed
Hazard Class	2.1
ID No.	UN1049
DOT Label	Flammable Gas
CAS. No.	1333-74-0

Research

Specifications: Min. purity 99.9995%
 N₂ < 1 ppm THC < 0.5 ppm
 O₂ < 0.5 ppm H₂O < 1 ppm
 CO₂ & CO < 0.5 ppm

Product Code	Cylinder Size	Contents cu. ft.	Pressure psig @ 70° F	Valve Outlet CGA	Recommended Pressure Regulator		
					Type	Series	Page
LW502	T	257	2400	350	Two-stage	Model 600	122
					Single-stage	Model 600	121

UHP Plus

Specifications: Min. purity 99.9994%*
 O₂ < 1 ppm THC < 0.5 ppm
 CO & CO₂ < 1 ppm H₂O < 2 ppm
 *Excluding Nitrogen

Product Code	Cylinder Size	Contents cu. ft.	Pressure psig @ 70° F	Valve Outlet CGA	Recommended Pressure Regulator		
					Type	Series	Page
LW500P	T	257	2400	350	Two-stage	Model 600	122
LW500R	K	215	2200	350	Single-stage	Model 600	121
LW500S	Q	79	2200	350			

UHP/Zero

Specifications: Min. purity 99.999%
 THC < 0.5 ppm H₂O < 3 ppm
 O₂ < 2 ppm

Product Code	Cylinder Size	Contents cu. ft.	Pressure psig @ 70° F	Valve Outlet CGA	Recommended Pressure Regulator		
					Type	Series	Page
LW500	T	257	2400	350	Two-stage	Model 600	122
LW510	K	215	2200	350	Single-stage	Model 600	121
LW551	Q	79	2200	350			
LW511G	G	32	2000	350			
EX050	ExCaliber™	3.6	1775	180	ExCaliber™ Support Equipment		103