

Hydrogen (H₂)

A flammable, colorless, odorless, compressed gas at high pressure.

Purity Specifications	Minimum Purity	O ₂	H ₂ O	THC	Ar	CO	CO ₂	N ₂
Research	99.9999%	< 0.1	< 0.5	< 0.1	< 0.5	< 0.1	< 0.1	< 0.5
Ultra Pure Carrier (UPC)	99.9995%	< 1	< 1	< 0.5		* < 0.5	* < 0.5	< 3
Ultra High Purity (UHP)	99.999%	< 1	< 2	< 0.5		* < 0.5	* < 0.5	< 5
Zero	99.998%	< 5	< 3	< 0.5				
High Purity (HP)	99.995%	< 4	< 3					
Prepurified	99.99%	< 10	< 5					
High Pressure / High Purity	99.995%	< 4	< 3					

Concentrations given are ppm by volume unless otherwise specified.

* CO + CO₂ < 1 ppm

PRODUCT	Ordering Information					Equipment Recommendations		
	Cylinder Size	Contents ft ³	Standard Valve Outlet (CGA)	Product Number	Cylinder Pressure at 70°F (psig)	Description Product Number	Delivery Pressure Range (psig)	Page Number
Research	300	260	350	HY R300	2,400	Two-Stage Regulators Y12-SR145 * 350 Y12-N145 * 350 Y12-244 * 350 Y12-S265 * 350 Single-Stage Regulators Y11-N145 * 350 Y11-244 * 350 Y11-S265 * 350	A = 0-25 B = 0-50 D = 0-100 E = 0-150 F = 0-250 G = 0-500**	E19 E14 E11 E24 E13 E10 E23
	200	216	350	HY R200	2,000			
80	85	350	HY R80	2,000				
35	34	350	HY R35	2,000				
An individual Certificate of Analysis included. Certificate of Conformance available upon request.								
Ultra Pure Carrier (UPC)	300	260	350	HY UPC300	2,400			
	200	216	350	HY UPC200	2,000			
80	85	350	HY UPC80	2,000				
35	34	350	HY UPC35	2,000				
Total impurities guaranteed < 5 ppm. Certificate of Conformance provided upon request.								
Ultra High Purity (UHP)	300	260	350	HY UHP300	2,400			
	200	216	350	HY UHP200	2,000			
80	85	350	HY UHP80	2,000				
35	34	350	HY UHP35	2,000				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
Zero	300	260	350	HY Z300	2,400			
	200	216	350	HY Z200	2,000			
80	85	350	HY Z80	2,000				
35	34	350	HY Z35	2,000				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
High Purity (HP)	300	260	350	HY HP300	2,400			
	200	216	350	HY HP200	2,000			
80	85	350	HY HP80	2,000				
35	34	350	HY HP35	2,000				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								
Prepurified	300	260	350	HYPP 300	2,400			
	200	216	350	HYPP 200	2,000			
80	85	350	HYPP 80	2,000				
35	34	350	HYPP 35	2,000				
An individual or batch analysis is available upon request at a nominal charge. Certificate of Conformance provided upon request.								

* Insert Delivery Pressure Range Code
 ** Single Stage Only