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## CERTIFICATE OF CONFORMANCE

**Keen Compressed Gas Co.** Is Accredited to the ISO/IEC 17025:2017 Testing and Calibration Laboratory Standard. Keen's Quality Management System, Enables Keen to Provide the Highest Level of Testing, Calibration, and Traceability to Meet or Exceed the Minimum Specifications Listed for the Hydrogen Grade Requested.

### Hydrogen (H2)

	Industrial	Zero <sup>3,4</sup>	Grade 5.0 <sup>5</sup>
<b>Minimum Purity:</b>	99.95	99.995	99.999
<b>Carbon Dioxide<sup>2,6</sup>:</b>	NT	NT	Sum ≤ 2.0 ppm
<b>Carbon Monoxide<sup>2,6</sup>:</b>	NT	NT	
<b>Nitrogen <sup>2,6</sup>:</b>	NT	NT	≤ 4.0 ppm
<b>Oxygen <sup>2</sup>:</b>	NT	NT	≤ 1.0 ppm
<b>Total Hydrocarbon <sup>2</sup>:</b>	NT	≤ 0.5 ppm	≤ 1.0 ppm
<b>Moisture <sup>2</sup>:</b>	NT	≤ 8.0 ppm	≤ 3.0 ppm
<b>Dew Point:</b>	-60°F	-92°F	-96°F
<b>Boiling Point</b>	-432°F	-432°F	-432°F
<b>CGA Connection:</b>	350	350	350
<b>Lot Label Tracking:</b>	No	Yes	Yes
<b>Reference Item No:</b>	HY2	RSG 252	RSG 250
<b>TECHNICAL INFORMATION</b>			
<b>UN ID:</b>	1049	<b>Molecular Weight:</b>	2.016 g/mol
<b>DOT Classification:</b>	2.1 Flammable Gas	<b>Specific Volume:</b>	192 ft <sup>3</sup> /lb.
<b>DOT Ship Name:</b>	Hydrogen, Compressed	<b>CAS NO:</b>	1333-74-0

**Notes:**

1. NT – Not Tested
2. Certificate of Batch or Individual Analysis Specification Results Available Upon Request
3. Zero Grade Refers to Total Hydrocarbon Less Than 0.5 ppm
4. Meets MIL-BB-H-886E Type 1, Grade A Specification
5. Meets MIL-BB-H-886E Type 1, Grade B and C Specification
6. Specification Based on Raw Material Conformance to CGA QVL Grade (F&L) per CGA G5.3.7 2017