

# HYDROGEN - (H<sub>2</sub>)

5.6

<b>DESCRIPTION :</b> A colorless, flammable, high-pressure gas.	<b>APPLICATIONS :</b> Carrier gas, especially at high flow rates in epitaxial deposition. Hydrogen 5.6 can be especially useful as a carrier gas in the production of VLSI and ULSI devices.	<b>ADR Item No.</b> : 2, 1 F
		<b>ADR</b> Label 2.1 Flammable gas
		<b>MSDS REFERENCE</b> : 067A
		<b>CHEMICAL ABSTRACTS</b> : 1333-74-0
		<b>UN No.</b> : 1049

PRODUCT		PRESSURE BARG	VALVE TYPE	VALVE OUTLET DIN 477 No	VALVE MATERIALS OF CONSTRUCTION
CYLINDER	CONTENTS				
50HH	9,1 m <sup>3</sup>	200	Diaphragm	1	316L SS

PRODUCT CHARACTERISTICS	PRAXAIR SPECIFICATIONS	METHOD OF ANALYSIS (SEE KEY)
<b>MINIMUM PURITY</b>	<b>99,9999 %</b>	
Carbon Dioxide (CO <sub>2</sub> )	≤ 0,1 ppm	J
Carbon Monoxide (CO)	≤ 0,1 ppm	J
Total Hydrocarbons (THC)	≤ 0,1 ppm	J
Nitrogen (N <sub>2</sub> )	≤ 2 ppm	S
Oxygen (O <sub>2</sub> )	≤ 0,5 ppm	D
Water (H <sub>2</sub> O)	≤ 2 ppm	E

Sum total of all impurities not to exceed 4 ppm

**Notes :**

- ◆ Cylinder sizes, contents, valve types and valve connections other than those indicated above are available on request.
- ◆ All expressions for concentration are for gas phase, by volume unless otherwise noted.
- ◆ MSDS Ref.: More detailed Safety Information can be obtained from the Material Safety Data Sheet No. 067A

Key to Analytical Techniques					
A	Gas Chromatograph with Thermal Conductivity Detector	D	Specific Oxygen Analyzer	K	Gas Chromatograph - Photo Ionization
B	Gas Chromatograph with Flame Ionization Detector	E	Specific Water Analyzer	L	Gas Chromatograph - Flame Photometric
C	Gas Chromatograph with Ultrasonic Detector	F	Total Hydrocarbon Analyzer	M	Mass Spectrometry
		G	Infrared	N	Wet Chemical
		H	Proprietary	O	Gas Chromatograph with Discharge Ionization Detector
		I	Gas Chromatograph with Helium Ionization Detector	P	Gas Chromatograph with Methanizer Carbonizer
		J	Flame Ionization with Methanizer	Q	Gas Chromatograph with Electrolytic Conductivity
				R	Gas Chromatograph with Reduction Gas Analyzer
				S	Gaschromatograph with High Frequency Discharge Detector

**IMPORTANT**

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