

PRODUCT TECHNICAL SHEET HYDROGEN (H₂)

DATE: February 2024

Version: 2

Ref. No.: PS094

11967.4 ml/g

2.0

-252.8°C

0.0695

Physical Data



Hydrogen is a colourless, odourless, flammable gas. It is supplied as a permanent gas at high pressure in metal cylinders and is the lightest substance known to man. It is non-toxic although it does not support life. It also burns, having a flammability range of 4-75% in air

Gas SpecificationPurity≥99.99%

Hazards

Form explosives mixture in air

All cylinders are portable gas containers and must be regarded as pressure vessels at all times

An asphyxiant in high concentrations

Only gas that becomes warm when expanding

Risk of static electricity sparking

Transport/ Storage Information

Specific Volume @20°C

Boiling point at 101,325

Relative Density (air= 1)

Molecular Weight

at 101,325 kPa

kPa



Do not allow cylinders to slide or come into contact with sharp edges Do not store hydrogen cylinder with oxygen or other oxidising cylinders

May be stacked horizontally provided that they are firmly secured at each end to prevent rolling First in – First out inventory system

Uses and Features

Hydrogen is widely used in the metallurgy field because of its ability to reduce metal oxides and prevent oxidation in the heat treating of certain metal and alloys

Hydrogen is widely used in the manufacture of chemicals, plastics and in petroleum refining

Hydrogen is used in the hydrogenation of vegetable and animal oils and fats.

Hydrogen is used in semiconductor manufacturing and in gas chromatography as a detector fuel.

Cylinder Information				
Colour Coding	Pressure @ 20°C (Bar)	Cylinder Dimension		
		Height (mm)	Diameter (mm)	Valve Outlet Connection
Signal Red	150	1440	230	5/8" BSP Left hand female
	200	1440	230	

Nb: Other cylinders capacity and dimension also are available - Dimensions are given as an indication and can differ

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