



CORPORATE PURCHASE SPECIFICATION

AA 544 05

Rev. No. 01

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HYDROGEN GAS (COMPRESSED) – Gr.: 2

1.0 GENERAL

This specification governs the quality requirements of Hydrogen gas (Compressed), Grade 2.

2.0 APPLICATION

Used for cooling of large Turbo-generators, gas welding, etc.

3.0 COMPLIANCE WITH NATIONAL STANDARDS

The material shall comply with the requirements of the following national standard and also meet the requirements of this specification.

IS : 1090 - 1983 | Compressed hydrogen

4.0 TEST SAMPLES

As per Appendix – B of IS: 1090.

5.0 PROPERTIES

When tested as per appendix A –1 of IS: 1090 (or Knowle's method), the hydrogen content shall not be less than 99.6% by mass/volume.

6.0 TEST CERTIFICATES

Three copies of test certificates shall be supplied alongwith each consignment, giving the following information:

In addition, the supplier shall ensure to enclose one copy of the test certificate alongwith the despatch documents to facilitate quick clearance of the material.

AA 544 05, Rev. 01 : Hydrogen gas (Compressed), Gr.: 2

BHEL Order No.

Batch / Lot No.

Supplier's/ Manufacturer's Name and Grade

Test results of clause 5.0.

Revisions :

CI 32.11.29 of MOM of MRC-CPO

APPROVED :

INTERPLANT MATERIAL
RATIONALISATION COMMITTEE-MRC (CPO)

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7.0 PACKING & MARKING

The gas shall be supplied compressed in cylinders. The design of cylinders, pressure of gas in cylinders, packing, marking, painting, labeling and transport of cylinders shall be in accordance with the 'Gas Cylinder Rules - 1940' of the Government of India with such modifications as may be ordered from time to time by the Chief Inspector of Explosives, Government of India or other duly constituted authority.

The cylinder shall be painted with signal red colour (Colour code No. 537 of IS : 5).
The cylinders shall also be marked with the BIS certification mark.

All cylinders shall be securely tagged with the following information:

AA 544 05: Hydrogen gas (Compressed), Gr.: 2
BHEL Order NO.
Supplier's / Manufacturer's Name & Grade
No. of Cylinders
Net & Gross weight

8.0 ENVIRONMENTAL REQUIREMENTS :

The supplier shall furnish Material Safety Data Sheet (**MSDS**) covering all information relating to human safety and environmental impacts of the hazardous materials particularly during their transportation, storage, handling and disposal alongwith each supply.

Each container shall be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc. as applicable.

9.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. IS : 5

2. IS: 1090