

**CORPORATE PURCHASING SPECIFICATION**

AA 544 11

Rev. No. 01

PREFACE SHEET**NITROGEN GAS – 99 % PURE**

**FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS**

Comparable Standards:

1. INDIAN : IS: 1747-1972

Suggested /Probable Suppliers and Grades

1. INDIAN OXYGEN LTD :--
2. EASTERN AIR PRODUCTS LTD, BHOPAL :--
3. Refer plant vendors list :-

User Plant References:

1. HYDERABAD : IS 1747
2. BHOPAL : BP 544 98
3. HARDWAR : IS 1747
4. TIRUCHY : IS 1747

Revisions :

CI 32.11.31 of MOM of MRC-CPO

APPROVED :**INTERPLANT MATERIAL
RATIONALISATION COMMITTEE-MRC (CPO)**

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BHOPAL

Corp. R&D

AUGUST, 1988



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NITROGEN GAS – 99 % PURE

1.0 GENERAL

This specification governs the quality requirements of Nitrogen gas, having a purity of 99%, minimum.

2.0 APPLICATION

Used for providing inert atmosphere above oil in instrument and power transformers during shipping, etc.

3.0 COMPLIANCE WITH NATIONAL STANDARDS

The gas shall comply, in general, with the requirements of the following national standard and also meet the requirements of this specification.

IS : 1747-1972, 99% pure | Nitrogen

4.0 TEST SAMPLES

One gas cylinder at random shall be chosen from the lot for testing oxygen and moisture contents.

5.0 PROPERTIES

When tested as per the test methods shown against each, the gas shall show the following properties:

5.1 Oxygen (Appendix A-2 of IS: 1747 or Gas Chromatograph):

10,000 ppm (1%), max. by volume.

5.2 Moisture (Dew point):

50 ppm, max. by volume.

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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 11, Rev. 01 : Nitrogen gas, 99% pure
BHEL Order No.
Batch / Lot No.
Supplier's/ Manufacturer's Name and Grade
Test results of clause 5.0.

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.

All cylinders shall be securely tagged with the following information:

AA 544 11: Nitrogen gas 99% pure
BHEL Order No.
Supplier's / Manufacturer's Name & Grade
No. of Cylinders
Net and 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: 1747