

**CORPORATE PURCHASING SPECIFICATION**

AA 544 09

Rev. No. 01

**PREFACE SHEET****ANHYDROUS AMMONIA – Gr.: 1**

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

**Comparable Standards:**

1. INDIAN : IS: 662 - 1980, Gr.: 1

**Suggested /Probable Suppliers and Grades**

1. Refer plant vendors list :-

**User Plant References:**

1. HYDERABAD : IS 662  
2. BHOPAL : IS 662  
3. HARDWAR : IS 662  
4. TIRUCHY : IS 662

**Revisions :**

CI 32.11.30 of MOM of MRC-CPO

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

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PAGE 1 OF 2

### ANHYDROUS AMMONIA – Gr.: 1

#### 1.0 GENERAL

This specification governs the quality requirements of Anhydrous Ammonia, grade 1.

#### 2.0 APPLICATION

Used for refrigeration.

#### 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 : 662-1980, Gr.: 1 | Anhydrous Ammonia

#### 4.0 TEST SAMPLES

Samples of the material shall be drawn in accordance with the method prescribed in Appendix-B of IS:662.

#### 5.0 PROPERTIES

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

##### 5.1 Residue on Evaporation ( Appendix A-2 of IS: 662):

0.02 percent, max. by volume.

##### 5.2 Moisture (Appendix A-3 of IS: 662):

0.02 percent, max. by mass.

#### 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.

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PAGE 2 OF 2

**CORPORATE PURCHASE SPECIFICATION**



AA 544 09, Rev. 01 : Anhydrous Ammonia - Gr.: 1  
BHEL Order No.  
Batch / Lot No.  
Supplier's/ Manufacturer's Name and Grade  
Test results of clause 5.0.

**7.0 PACKING & MARKING**

The material shall be supplied as liquid in cylinders or tank cars of approved design. The cylinders shall conform to 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 tank cars shall conform to the specification as approved by the appropriate authorities of Indian Railways or other duly constituted authority. The cylinders shall also be marked with BIS certification mark.

The cylinder ground colour shall be black and the colour band shall be signal red and golden yellow ( colour code No 537, 356 of IS 5).

All cylinders shall be securely tagged with the following information:

AA 544 09: Anhydrous Ammonia - Gr.: 1  
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: 662