



CORPORATE PURCHASING SPECIFICATION

AA54409

Rev No.01

PREFACE SHEET

ANHYDROUS AMMONIA – Grade 1

FOR INTERNAL USE ONLY
REMOVE THIS PREFACE BEFORE ISSUE TO SUPPLIERS

Equivalent/Comparable Standards:

INDIAN : IS 662-1980, Gr.: 1

User Plants and Replaced Plant Specifications/References:

- | | | |
|--------------|---|--------|
| 1) HYDERABAD | : | IS 662 |
| 2) BHOPAL | : | IS 662 |
| 3) HARIDWAR | : | IS 662 |
| 4) TIRUCHY | : | IS 662 |

Revisions:

As per clause 44.5.a) of MOM of MRC-CPO+NM

APPROVED:

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(CPO+NM)

Rev No.01

Amd No.

Reaffirmed

Prepared
HPBP, Trichy

Issued
Corp.R&D

Dt. of 1st Issue
01-01-1990

Dt:15-02-2004

Dt:

Year:2015

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ANHYDROUS AMMONIA – Grade 1

1 GENERAL

This specification governs the quality requirements of Anhydrous Ammonia, grade1.

2 APPLICATION

Used for refrigeration.

3 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 TEST SAMPLE

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

5 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% max. by mass.

Revisions:

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**6 TEST CERTIFICATES**

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

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

AA54409, Rev. 01: ANHYDROUS AMMONIA – Grade 1

BHEL Order No.

Batch / Lot No.

Supplier's/ Manufacturer's Name and Grade

Test results of clause 5

7 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:

AA54409: ANHYDROUS AMMONIA – Grade 1

BHEL Order No.

Supplier's / Manufacturer's Name & Grade

No. of Cylinders

Net & Gross weight

8 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 along with 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 REFERRED STANDARDS (Latest Publications Including Amendments)

- 1) IS 5