



CORPORATE PURCHASING SPECIFICATIONS

AA55619

Rev. No.04

PREFACE SHEET

SILICA GEL – INDICATING TYPE

FOR INTERNAL USE ONLY

REMOVE THIS PREFACE SHEET BEFORE ISSUE TO SUPPLIERS

Equivalent / Comparable Standards:

1. INDIAN : IS: 3401-1992

Suggested/ Probable Suppliers and Grades:

1. M/s Patala Chemicals, Jamnagar : --
2. M/s Minco Products, Chennai : --
3. Use Plant vendor's list

User plants & Replaced Plant Specifications / References:

1. BHOPAL : PS 54311

Revisions:
As per 40th MOM of MRC-CPO

APPROVED:
INTER PLANT MATERIAL RATIONALISATION
COMMITTEE – MRC(CPO)

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SILICA GEL – INDICATING TYPE

1.0 GENERAL:

This specification governs the quality requirements of Silica Gel – Indicating type, impregnated with cobalt chloride. Coating of cobalt chloride shall not come out easily by rubbing. The material shall be solid with grainy porous structure free from extraneous impurities.

2.0 APPLICATION:

Used as industrial desiccant in packages and transformer breathers.

3.0 COMPLIANCE WITH NATIONAL STANDARD:

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

IS: 3401-1992, Type: Indicating: Silica Gel.

4.0 PARTICLE SIZE:

The standard size of the particle is 3 to 6 mesh (5.6 to 2.8mm).

When checked with 3mm sieve, residue shall be 99.5%, minimum

5.0 TEST SAMPLES: As per IS:3401

- 5.1. To draw a representative sample, the contents of the container selected for sampling shall be mixed as thoroughly as possible by shaking or stirring or both or by rolling, so as to bring all portions into uniform distribution.
- 5.2. The samples shall be taken in a suitable, clean, dry air-tight glass bottle of one litre capacity. It should be almost but not completely filled by the sample.
- 5.3. In case of failure of first sample, two samples shall be drawn from other two drums of the same consignment at random and failure of the second sample in complying with the specification will lead to the rejection of the whole consignment.

6.0 PROPERTIES:

When tested in accordance with relevant clauses of IS: 3401, the test sample shall show the following properties:

- 6.1. Colour: Blue
- 6.2. Absorption Capacity of Moisture: 27% by weight, minimum
- 6.3. Bulk Density: (For information only): 650 ± 50 g/litre

7.0 TYPE TESTS:

- 7.1. Loss on drying at 150 + 50°C for 4 hours: 5% by weight, maximum

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8.0 KEEPING PROPERTY

When stored in a covered dry place in the original sealed containers under normal temperature conditions, the material shall retain the properties prescribed in this specification for a period of 12 months after the date of manufacture, which shall be subsequent to the date of placement of BHEL order.

9.0 TEST CERTIFICATES:

Unless otherwise specified, 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 test certificate along with their despatch documents to facilitate quick clearance of the material.

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BHEL Order No.

Manufacturer's/ Supplier's Name and Trade mark, if any

Batch/ Lot No.

Date of manufacture and expiry, if any

Test Results of clause 4.0, 6.0 & 7.0:

10.0 PACKING AND MARKING:

The material shall be suitably packed in clean dry polythene bags of at least 100 micron thickness and sealed. These polythene bags shall be further packed in air tight synthetic material containers. The capacity of the containers shall be 5 or 10kg as specified in the BHEL order.

Each consignment shall be legibly marked or labelled with the following information:

AA55619: SILICA GEL – INDICATING TYPE

BHEL Order No.

Manufacturer's/Supplier's Name. Trade mark, if any

Batch/lot No.

Date of manufacture and expiry, if any

Sizes and Quantity supplied

11.0 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 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.

12.0 REFERRED STANDARDS (Latest Publications Including Amendments):

- 1) IS: 3401