

MATERIAL CODE: EL5421800040



PURCHASE SPECIFICATION FOR MOLYBDENUM TRIOXIDE (MoO₃)

ISSUE NO : 06	
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1.0 GENERAL

This specification governs the requirements of Molybdenum Trioxide Powder for application in manufacturing catalyst for selective catalytic reduction of NO_x (Oxides of Nitrogen)

2.0 APPEARANCE

Off white to bluish White in color and powder/granular in form.

3.0 FINENESS

100% should pass through 40 Mesh

4.0 CHEMICAL PROPERTIES

Constituents/ Components	Acceptable Limit
MoO ₃	> 99.5%
Mo	> 66.5%
Si	< 0.0020%
Al	< 0.0015%

All other remaining elemental composition should not be more than 0.001%.

5.0 CONDITION OF DELIVERY

Powder shall be supplied in moisture proof packed condition as per Purchase order. Generally, package size will be 25 kg per pack unless otherwise specified. In case of any other packing size the vendor should mention the same in the techno-commercial offer for BHEL approval.

Sample: Vendor needs to supply sample (Min 100 gms. with sample identification) along with the techno-commercial offer for approval by BHEL. The vendor shall ensure bulk supply as per the final sample approval.

6.0 TEST SAMPLES

Test samples will be drawn as per ASTM A146-04, Cl. No 5 or as per QAP provided by BHEL.

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Issued By	Prepared By	Checked By	Approved By	Date
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7.0 TEST CERTIFICATE

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

- a) Purchase Order no.
- b) Purchasing specification no.
- c) Suppliers reference and name
- d) Batch no. details with traceability
- e) Consignment identification
- f) Results of various tests as called for in this specification
- g) Details of packing and the standards being followed

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

8.0 PACKING & MARKING

Manufacturer can follow any national or international standard to ensure moisture proof packing. Each pack shall be legibly identified with the following information

- a) Supplier's/Manufacturer's Name and Trade mark, if any
- b) BHEL Purchase Order no.
- c) Quantity in the package
- d) Consignment identification
- e) Lot (or batch) identification
- f) Packing date

9.0 ENVIRONMENTAL REQUIREMENT

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.

10.0 INSPECTION AT VENDOR'S PREMISES

Internal Test Report/ TC shall be forwarded to BHEL-SBD before offering the item for Inspection. BHEL's representative shall have free access to all parts of Vendors' premises at all times when work on the contract is being executed. The vendor shall offer BHEL's representative all reasonable facilities to convince the latter that the material is being manufactured in accordance with this specification. BHEL reserves the right to waive off the inspection, if they feel so, based on the requirement.

11.0 REJECTION

Materials not conforming to the above stipulations shall be rejected. Also in the event of proven defective in the course of any further processing the same shall be rejected notwithstanding any previous certification of satisfactory testing and/or inspection.

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