

EL5421800199



SBD- 560012

**PURCHASE SPECIFICATION FOR  
ORTHO-PHOSPHORIC ACID (H<sub>3</sub>PO<sub>4</sub>)**

ISSUE NO : 06

DOC.NO: SCR-D-RM-013

REV : 00 JULY 2022

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**GENERAL**

This specification governs the requirements of Phosphoric Acid (H<sub>3</sub>PO<sub>4</sub>) for application in manufacturing catalyst for Selective Catalytic Reduction (SCR) of NO<sub>x</sub> (Oxides of Nitrogen)

**APPEARANCE**

Clear Syrupy Liquid

**CHEMICAL PROPERTIES**

Chemical composition shall conform to Technical Grade as per IS:798 (2020) with following characteristics and their acceptable limit

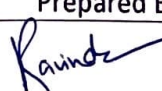


Chemical Characteristics	Acceptable Limit
Relative density at 27°C	1.55 (Min)
Ortho-phosphoric acid (H <sub>3</sub> PO <sub>4</sub> ), percent by mass,	85 % (Min)
Iron (as Fe), percent by mass,	0.4 (Max)
Chlorides (as Cl ), parts per million,	200 (Max)
Sulphates ( as SO <sub>4</sub> ), parts per million,	300 (Max)
Arsenic ( as As <sub>2</sub> O <sub>3</sub> ), parts per million,	15 (Max)
Antimony ( as Sb <sub>3</sub> O <sub>3</sub> ), parts per million,	15 (Max)

**CONDITION OF DELIVERY**

Powder shall be supplied in moisture proof packed condition as per Purchase order.

**TEST SAMPLES**

Test samples will be drawn as per IS:798.

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### 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:

1. Supplier's/Manufacturer's Name and Trade mark, if any
2. BHEL Purchase Order no.
3. Quantity in the package
4. Consignment identification
5. Packing date

### ENVIRONMENTAL REQUIREMENT

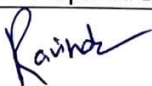

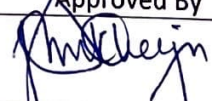
The supplier shall furnish Material Safety Data Sheet (MSDS) covering all information relating to human safety and environmental impacts of the hazardous materials particularly during their transportation, storage, handling and disposal along with each supply.

Each container shell be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc., as applicable.

### REJECTION

Materials not conforming to the above stipulations shall be rejected. Also in the event of proving 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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