



CORPORATE PURCHASING SPECIFICATION

AA 541 03

Rev. No. 03

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HYDROCHLORIC ACID - TECHNICAL

1.0 GENERAL:

This specification governs the quality requirements of Hydrochloric acid, technical grade.

2.0 APPLICATION:

For use in laboratory.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

The acid shall comply with the requirements of the following National standards and also meet the requirements of this specification:

IS: 265 - 1993 : Hydrochloric acid.

4.0 TEST SAMPLES:

As per IS: 265.

5.0 CHEMICAL PROPERTIES:

When tested as per the relevant clauses of IS: 264, the acid shall show the following properties:

- i) Total acidity (as HCl) : 30%, min. by mass
- ii) Residue on ignition : 0.1%, max. by mass
- iii) Sulphates (as H₂SO₄) : 0.1%, max. by mass
- iv) Iron (as Fe) : 0.02%, max. by mass

6.0 TYPE TESTS:

Whenever specified, the following tests shall be conducted and the acid shall show the properties mentioned below :

- i) Free chlorine and Bromine (as Cl) : 0.02% max., by mass
- ii) Mercury (as Hg) : 3 ppm max., by mass
- iii) Sulphite (as SO₃) : 0.05%, max., by mass

Revisions :

Cl: 32.11.26 of MOM of MRC-CPO

APPROVED :

INTERPLANT MATERIAL
RATIONALISATION COMMITTEE-MRC (CPO)

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7.0 TEST CERTIFICATE:

Three copies of the test certificates shall be supplied unless otherwise started in the order. in addition, the supplier make sure to send one copy of test certificate along with despatch documents to facilitate quick clearance of the material.

The test certificates shall bear the following information.

BHEL'S Reference:

BHEL Order No:
AA 541 03, Rev No. 03: Hydrochloric acid, technical.

Supplier's Reference:

Manufacturer's/Supplier's Name
Batch / Lot No
Date of manufacture and expiry, if any

Test Results:

Results of clauses 5.0 and 6.0.

8.0 PACKING AND MARKING:

As per IS:265.

9.0 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.

10.0 REFERRED STANDARDS (Latest Publications Including Amendments):

1. IS:265