



CORPORATE STANDARD

AA 567 06

Rev. No. 03

PAGE : 1 OF 2

TRICHLORO ETHYLENE, TECHNICAL

1.0 GENERAL:

This specification governs the quality of Trichloro Ethylene, Technical.

2.0 APPLICATION:

Suitable for severe duty metal degreasing particularly aluminium, magnesium and their alloys.

3.0 COMPLIANCE WITH NATIONAL STANDARDS:

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

IS:245-1988(RA-2005) : Trichloro Ethylene, Technical.

Type 2

4.0 FREEDOM FROM DEFECTS:

"The material shall be clear almost colourless free from suspended matter & sulphur compounds".

5.0 COMPOSITION:

The material shall be a specially established one and consist essentially of trichloro ethylene.

6.0 TEST SAMPLES:

Sample for testing shall be drawn as indicated below.

6.1 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.

6.2 The samples shall be taken in a suitable, clean, dry air-tight glass bottle of one liter capacity. It should be almost but not completely filled by the sample.

6.3 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.

7.0 PROPERTIES:

When tested in accordance with relevant clauses of Appendix A of IS: 245, the test samples shall show the following properties:

7.1 Relative Density at 27/27°C:

1.447 to 1.458.

7.2 Residue on Evaporation:

15 mg/100 ml Max.

7.3 Distillation Range At 760 mm Hg Pressure And Between 86 And 88°C :

94% Min. by volume.

Revisions :

As per 40th MOM of MRC -CPO

APPROVED :

INTERPLANT MATERIAL RATIONALISATION
COMMITTEE-MRC (CPO)

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CH-1032

1

AA 567 06	CORPORATE STANDARD	
Rev. No. 03		
Page : 2 of 2		

7.4 **Alkalinity (As Na₂ CO₃) :**
0.0025% Max. by Mass.

7.5 **Free Chlorine :**
Nil

7.6 **Stability Under Reflux (as HCl acid):**
0.02% Max. by Mass.

7.7 **Resistance To Corrosion :**
Shall pass the test .

8.0 **TEST CERTIFICATES**
Unless otherwise specified, Three copies of test certificates shall be supplied along with each consignment.
In addition the supplier shall ensure to send one copy of test certificates along with the despatch documents to facilitate quick chance of the material.
The test certificates shall bear the followings information
AA 567 06 (Rev.No.03) : Trichloroethylene, Technical
BHEL Order No.
Manufacturer's/Supplier's Name.
Trade Mark, if any.
Batch No.
Date of Manufacture
Test Results of clauses 7

9.0 **SAFETY PRECAUTION:**
Smoking is prohibited in the areas of the solvent owing to the risk of the formation of phosgene gas which is likely to cause explosion.

10.0 **PACKING AND MARKING**
The material shall be packed securely in closed mild steel or galvanised steel drums, protected from light and stored in cool and well ventilated place.
Each container shall bear the following information:
AA 567 06 : Trichloroethylene, Technical
BHEL Order No.
Manufacturer's/Supplier's Name.
Trade Mark, if any.
Batch/Lot No.
Date of Manufacture
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 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

12.0 **REFERRED STANDARDS (Latest Publications Including Amendments)**
1. IS: 245

CPs-1032