



## ACETONE

## 1.0 GENERAL

This specification governs the quality requirements of Acetone liquid intended for industrial purposes.

## 2.0 APPLICATION

Used as a solvent and thinner in paints & varnishes and for filling acetylene in cylinders.

## 3.0 COMPLIANCE WITH NATIONAL STANDARDS

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

IS : 170 - 1986 , Gr.: Technical | Acetone

## 4.0 TEST SAMPLES

As per clause 4.1 ( Appendix G) of IS:170.

## 5.0 PROPERTIES

5.1 The material shall be clear and free from any suspended matter. It shall consist essentially 2 – propanone or dimethyl ketone.

5.2 The material shall show no turbidity on mixing with distilled water in any proportion at  $27 \pm 2^{\circ}\text{C}$ .

5.3 When tested as per the test methods shown against each, the material shall show the following properties.

5.3.1 Colour (Appendix A of IS: 170 or any other suitable method):

10, Hazen units.

5.3.2 Relative Density at  $27^{\circ}\text{C}$  ( IS: 82 ):

0.784 to 0.786

5.3.3 Distillation Range (IS: 1448, P 18, Method B):

The difference between initial boiling point and dry point shall not exceed  $1^{\circ}\text{C}$ , including  $56.1^{\circ}\text{C}$  ( temperature being corrected for a pressure of 760 mm Hg).

5.3.4 Water Content (IS: 2362):

0.4 percent by mass, maximum.

5.3.5 Residue on Evaporation (IS: 82):

0.002 g / 100 ml, maximum.

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<p>6.0 TYPE TESTS:</p> <p>6.1 Acidity as CH<sub>3</sub> COOH (Appendix C of IS: 170) : 0.002 g / 100ml , maximum.</p> <p>6.2 Alkalinity ( Appendix D of IS: 170) : To pass the test.</p> <p>6.3 Permanganate Test (Appendix E of IS: 170) : 30 minutes, minimum.</p> <p>6.4 Alcoholic Impurities (Appendix F of IS: 170) : To pass the test.</p> <p>7.0 TEST CERTIFICATES</p> <p>Three copies of test certificates shall be supplied alongwith each consignment, giving the following information:</p> <p>In addition, the supplier shall ensure to enclose one copy of the test certificate alongwith the despatch documents to facilitate quick clearance of the material.</p> <p>AA 547 04, Rev. 02 : Acetone  BHEL Order No.  Batch / Lot No.  Supplier's/ Manufacturer's Name and Trade mark, if any  Test results of clause 5.0 and 6.0.</p> <p>8.0 PACKING &amp; MARKING</p> <p>The material shall be supplied in sound and clean containers.</p> <p>Each container shall be marked legibly and indelibly with the following information:</p> <p>AA 547 04: Acetone  BHEL Order No.  Supplier's / Manufacturer's Name and Trade mark, if any  Batch No./Lot No  Date of manufacture  Quantity supplied</p> <p>9.0 ENVIRONMENTAL REQUIREMENTS :</p> <p>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.</p> <p>Each container shall be marked with corresponding symbol and minimum worded cautionary notice for flammable / corrosive / toxic / harmful / irritant and oxidizing etc. as applicable.</p> <p>10.0 REFERRED STANDARDS (Latest Publications Including Amendments)</p> <p>1. IS : 82                      2. IS: 170                      3. IS: 1448                      4. IS: 2362</p>		