

QUALITY ASSURANCE PLAN

1. Item : ACETONE
2. D S Cat No : N6810-000008
3. Brief Description : Acetone is an important commercial solvent and raw material with a wide usage in the chemical explosive and lacquer industry. It is commonly used as a solvent for cellulose acetate, nitrocellulose celluloid, cellulose ether chlorinated rubber, various resins, fats and oils and, as an absorbent for acetylene. It is being increasingly used in the synthesis of a number of chemicals such as diacetone alcohol, methyl isobutyl ketone, phorone isophorone, methyl methacrylate and certain resins, pharmaceuticals and perfumes.
4. Specification : IS : 170 (2004)
5. Aim/Object : To meet the schedule parameters of specs as Indicated in the Purchase Orders
6. Inspecting Officer : DQA(N) s nominated 'Inspecting Officer'
7. Pre-inspection Call letter : To be submitted by the firm along with Inspection call letter

8. **Testing (Quantum of Check of each parameter 100% sample drawn)**

S.No.	Characteristics	Specified Value	Test method	Remarks
i.	Description	The material shall be clear and free from any suspended matter. It shall consist essentially of 2-propanone or dimethyl ketone (CH ₃ COCH ₃).	Visual Examination	W-Firms Lab/TC-NABL approved Lab/approved Govt.lab/Unit lab
ii	Miscibility with water	The material shall show no turbidity on mixing with distilled water in any proportion at 27± 2°C	Visual Examination	-do-
iii.	Purity % by mass min	99	Appendix A to IS:170/2004	-do-

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S.No.	Characteristics	Specified Value	Test method	Remarks
iv	Colour Pt-Co scale, max	10	IS.8768	W-Firms Lab/ TC-NABL approved Lab/approved Govt lab/Unit lab
v	Relative density 27°C/27°C	0.784 to 0.786	6 of IS 82	-do-
vi	Distillation range	The difference between initial boiling point (IBP) and dry point (DP) shall not exceed 1°C including 56.1°C (temperature being corrected for a pressure of 760 mm Hg)	Method B in [P.18] of IS-1448 with thermometer conforming to requirements given in Annex-B to IS:170/2004	-do-
vii	Water content % by mass, max	0.4	IS:2362	-do-
viii	Residue on evaporation, mg/100ml, max	5	8 of IS 82	-do-
ix	Acidity (as CH ₃ COOH), g/100ml, max	0.002	Annex-C to IS 170/2004	-do-
x	Alkalinity	To pass the test	Annex-D to IS:170/2004	-do-
xi	Permanganate test, minutes, min	30	Annex-E to IS:170/2004	-do-
xii	Alcoholic impurities	To pass the test	Annex-F to IS 170/2004	-do-
xiii	Flash Point (Closed Cup)	17°C (As per P.O.)	Std. Method	-do-

9 Sampling Representative samples of the material shall be drawn as Prescribed in Annex-G of IS:170

10 Packing 20/25 Ltrs capacity Air Tight with screw caps steel containers or The material shall be supplied in sound and cleaned containers according to the marking and delivery delivery instructions given by the purcher.

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11. Marking

All drums shall be legibly and indelibly marked with the following details

- a. Nomenclature of store
- b. DS Cat No.
- c. Specification No.
- d. Batch No. & Manufacturing date
- e. Quantity per Bag
- f. Gross weight, Net weight & Tare weight
- g. Purchase Order No. and date
- h. Consignee Name and address
- i. Sr. number of container/total no. of container
- j. Direction for use on suitable sticker
- k. Manufacturer name and address
- l. Shelf life/ Expiry date
- m. Storage instruction

12. Sealing

All bags of store and samples drawn should be sealed with QA Estt's seal as Barcode Stickers or Rubber Stamp Stickers

Note

- 1. Each container shall also be marked with the minimum cautionary notice worded as 'FLAMMABLE'
- 2. It shall also bear the corresponding symbol of labeling of dangerous goods [Fig 5 of IS:1260 (Part I)].

QAP REFERENCE MUST BE ENSURED ON INSPECTION AND TEST REPORT.

W – Witness

TC – Test Certificate

APPROVED

जनरल सर्विस ब्युरो / चीफ़ इन्स्पेक्शन ऑफ़िसर
सिंह विभाग (एन एस) / ICD Director (NS)
गुड्स अँड सिविल (नो वेपन) / DQA (N)
रक्षा मंत्रालय (गुड्स अँड सिविल)
Min. of Defence (DQQA)