



उत्पाद मैनुअल
कॉस्मेटिक उद्योग के लिए आइसोप्रोपाइल अल्कोहल के लिए विशिष्ट
10301 : 1982 के अनुसार

PRODUCT MANUAL FOR
SPECIFICATION FOR ISOPROPYL ALCOHOL FOR COSMETIC INDUSTRY
ACCORDING TO IS 10301 : 1982

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम 2018 की स्कीम-I के तहत यह उत्पाद मैनुअल प्रमाणीकरण की संचालन रीति में सुसंगतता और पारदर्शिता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेंस धारियों द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस लाइसेंस/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ का उपयोग किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure coherence of practice and transparency in operation of certification under Scheme-I of Bureau of Indian Standards (Conformity Assessment) Regulations, 2018 for various products. The document may also be used by prospective applicants desirous of obtaining BIS certification licence/certificate.

1.	उत्पाद Product	:	IS 10301 : 1982
	शीर्षक Title	:	कॉस्मेटिक उद्योग के लिए आइसोप्रोपाइल अल्कोहल के लिए विशिष्ट Specification for Isopropyl Alcohol for Cosmetic Industry
	संशोधनों की संख्या No. of Amendments	:	NIL
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No specific requirement
b)	समूहीकरण दिशा निर्देश Grouping guidelines	:	NA
c)	नमूने का परिमाण Sample Size	:	1000 ml

3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-A देखें Please see Annex –A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-B देखें Please see Annex – B
5.	एक दिन में संभावित परीक्षण Possible tests in a day :	:	All tests are possible in a day
6.	लाइसेन्स का कार्यक्षेत्र/Scope of the Licence:		
	IS 10301 : 1982 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है Licence is granted to use Standard Mark as per IS 10301 : 1982 with the following scope:		
	उत्पाद का नाम Name of the product		Isopropyl alcohol for Cosmetic Industry

ANNEX – A
LIST OF TEST EQUIPMENTS
TO THE PRODUCT MANUAL FOR
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ACCORDING TO IS 10301 : 1982

Major test equipment required to test as per the Indian Standard

Sr. No.	Tests used in with Clause Reference	Test Equipment
1.	Odour, Cl. 2.2	Filter Paper
2.	Relative Density at 27/27°C ; Table 1 Reference Method A-1 of IS 10301	• 50 ml Capacity Relative Density bottle, Of Regnault type • Thermometer • Water Bath • Filter Paper • Weigh balance
3.	Distillation Range ; Table 1 Reference Method IS 1448 (Part 18)	APPARATUS: Manual or Automated apparatus Apparatus: • Distillation Flasks ; Distillation flask, 125 mL, borosilicate glass • Condenser and Cooling Bath: 560 mm length, 14 mm in outside diameter, • Metal Shield or Enclosure for Flask: 480 mm high, 280 mm long, 200 mm wide, made of sheet metal of approximately 0.8 mm. • Heat Source: Gas burner/Electric heater • Thermometer or temperature indicator Flask Support: type1(for burner)/type2 for electric heater • Graduated Cylinder: Measuring cylinder, 100 mL, complete with metal base, without Schell bach strip Graduated cylinder, 5 mL, for measuring distillation residue with funnel-shaped opening • Pt100 sample temperature sensor Centering holder for Pt100 sample temperature sensor. Holder for Pt100 sample temperature sensor. • Cleaning Cleaning wire with grip, 100 cm Cleaning felt. • Stopper Silicone stopper 22/55, bore 6 mm Boiling stones against boiling retardation

		• Barometer, levelling device, Centering device
4.	Residue on evaporation ; Table 1 Reference Method A-2 of IS 10301	APPARATUS • Platinum or borosilicate or silica crucible. • Water –bath with controlling temperature • Oven with controlling temperature • Measuring cylinder 100 ml capacity • Desiccator • Weighing balance
5.	Acidity (as CH ₃ COOH) ; Table 1 Reference Method A-3 of IS 10301	Reagent • Rectified Spirit 95% • Phenolphthalein Indicator • Standard Sodium Hydroxide Solution – 0.1N APPARATUS • Burette • 0.5 ml Graduated Pipette • 50 ml Measuring cylinder • Weighing balance
6.	Aldehydes and Ketones ; Table 1 Reference Method A-4 of IS 10301	Reagent • Standard Sodium Hydroxide Solution • Carbonyl Free Ethanol • 2,4 Di nitro phenyl hydrazine • Hydrochloric acid • Bromophenol Blue • Hydroxylamine hydrochloride APPARATUS • Weighing balance • 50 ml measuring cylinder • 5 ml Graduated pipette • Reflux Column (300*25 mm) • 100 ml volumetric flask • 20 ml pipette • 5 ml Volumetric pipette • 200 ml Volumetric flask • Water Bath • 25 ml Volumetric pipette • 250 ml conical flask
7.	Water Content ; Table 1 Reference Method IS 2362	APPARATUS • Automatic Burette • 10 to 25 ml capacity with a fine pointed tip and graduations of 0.05 • Titration Vessel : 100 ml capacity • Electrode : Double platinum

		• Magnetic stirrer with PTFE coated stirring bar. • Electrometric end point detection device utilizing a micrometer • Glass syringe, Suitable capacity. REAGENTS • Methanol • 2-Methoxyetbanol (Ethylene Glycol Monomethyl Ether) • Iodine • Pyridine • Karl Fischer Reagent • Sodium Tartrate Crystalline • Sulphur Dioxide • Aluminium Sodium Silicate/Activated Silica Gel • Silicone Base Grease
8.	As Required for testing and Sampling as per IS 10301	• General Laboratory Glasswares, • Weighted sampling can for taking samples from various depths in large tanks, • Sampling tube

The above list is indicative only and may not be treated as exhaustive

ANNEX B
SCHEME OF INSPECTION AND TESTING
TO THE PRODUCT MANUAL FOR
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ACCORDING TO IS 10301 : 1982

1. LABORATORY - A laboratory shall be maintained which shall be suitably equipped (as per the requirement given in column 2 of Table 1) and staffed, where different tests given in the specification shall be carried out in accordance with the methods given in the specification.

1.1 The manufacturer shall prepare and implement a calibration plan for the test equipments.

2. TEST RECORDS – The manufacturer shall maintain test records for the tests carried out to establish conformity.

3. PACKING AND MARKING - The Standard Mark, as given in the Schedule of the licence, shall be marked on the container provided always that material so marked conform to requirements of the specification.

3.1 Packing and Marking shall be done as per Cl. 3 of the Indian Standard. In addition, the following details shall be marked on each container :

- a) BIS Licence No. CM/L-----.
- b) BIS website details i.e. –“For details of BIS certification please visit www.bis.gov.in”.

4. CONTROL UNIT –For the purpose of this scheme, the quantity of the material produced continuously over a period of one day or part thereof shall constitute a control unit.

5. LEVELS OF CONTROL - The tests as indicated in column 1 of Table 1 and the levels of control in column 3 of Table 1, shall be carried out on the whole production of the factory which is covered by this plan and appropriate records maintained in accordance with paragraph 2 above.

5.1 All the production which conforms to the Indian Standards and covered by the license should be marked with Standard Mark.

6. REJECTION- Disposal of non-conforming product shall be done in such a way so as to ensure that there is no violation of provisions of BIS Act, 2016.

TABLE 1 (Levels of Control)
(Para 5 of Scheme of Inspection and Testing)

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Subcontracting permitted	Levels of Control		
Clause	Requirement	Test method			No. of Sample	Frequency	Remarks
		Clause	Reference				
2.1	Description	2.1	IS 10301	R	One	Each Control Unit	
2.2	Odour	2.2	IS 10301	R	One	-do-	
2.3, Table 1 Sl. No.- i	Relative Density at 27/27°C	A-1	IS 10301	R	One	-do-	
2.3, Table 1 Sl. No.- ii	Distillation range	10, 11	IS 1448 [P:18]	R	One	-do-	
2.3, Table 1 Sl. No. -iii	Residue on evaporation	A-2	IS 10301	R	One	-do-	
2.3, Table 1 Sl. No. -iv	Acidity (as acetic acid)	A-3	IS 10301	R	One	-do-	
2.3, Table 1 Sl. No. -v	Aldehydes and ketones (as acetone)	A-4	IS 10301	R	One	-do-	
2.3, Table 1 Sl. No. -vi	Water content	7, 8	IS 2362	R	One	-do-	

Note-1 Whether test equipment is required or sub-contracting is permitted in column 2 shall be decided by the Bureau and shall be mandatory. Sub-contracting is permitted to a laboratory recognized by the Bureau or Government laboratories empanelled by the Bureau.

Note 2: Levels of control given in column 3 are only recommendatory in nature. The manufacturer may define the control unit/batch/lot and submit his own levels of control in column 3 with proper justification for approval by BO Head.