



उत्पाद मानुयल
ऑक्सीकरण केश रंजक, तरल, जेल और क्रीम – विशिष्टता
8481 : 2020 (तीसरा पुनरीक्षण) के अनुसार
PRODUCT MANUAL FOR

OXIDATION HAIR DYES (LIQUID, GEL AND CREAM) — SPECIFICATION

ACCORDING TO IS 8481 : 2020

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम, 2018 की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन में रीति और पारदर्शिता के सुसंगत 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 8481 : 2020
	शीर्षक Title	:	ऑक्सीकरण केश रंजक, तरल, जेल और क्रीम - विशिष्टता Oxidation Hair Dyes(Liquid, Gel and Cream) — Specification
	संशोधन संख्या No. of Amendments	:	Nil
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	All the raw materials used in the manufacture of oxidation hair dye, liquid, gel and cream shall be as per cl. 4.2 , 4.3 and 4.4 of IS 8481.
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	Each type of Oxidation Hair Dyes (Liquid, Gel and Cream) shall be tested separately for consideration of GoL and CSoL.
c)	नमूने का परिमाण Sample Size	:	60 ml Dye + 60 ml Developer.

3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-ए 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 :		
	1. Determination of pH 2. Determination of Active matter as PPD Content 3. Determination of Hydrogen Peroxide Content 4. Determination of Dye Ingredient (TLC Method)		
6.	लाइसेन्स का कार्यक्षेत्र/ Scope of the Licence:		
	IS 8481 : 2020 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 8481 : 2020 with the following scope:		
	उत्पाद का नाम Name of the product	ऑक्सीकरण केश रंजक, तरल, जेल और Oxidation Hair Dyes (Liquid, Gel and Cream)	
	Types	Type-1(Black) and/or Type-2(Brown) and/or Type-3 Others (covering entire range of fashion hair colours like black, brown, red, blonde, purple, etc.)	

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ANNEX – A

TO PRODUCT MANUAL FOR
OXIDATION HAIR DYES (LIQUID, GEL AND CREAM)
AS PER IS 8481 : 2020

LIST OF TEST EQUIPMENTS,

Major test equipment required to test as per the Indian Standard

Sr. No.	Tests used in with Clause Reference	Test equipment
1.	pH Cl 4.5.2, Table 1, Sl.no. i) and Cl 4.6.2, Table 2, Sl. i)	pH meter equipped with glass electrode
2.	Arylamine content Cl 4.5.2, Table 1, Sl.no. ii)	Continuous Extraction Apparatus, G-4 Sintered glass crucible, Beaker- 250 ml capacity, Chloroform, Acetic Anhydride.
3.	Heavy metals (as Pb) Cl 4.5.2, Table 1, Sl.no. iv) and Cl 4.6.2, Table 2, Sl.no. iii) (Annex F of IS 8481)	Nessler Cylinder, 50 ml capacity, Dilute Hydrochloric Acid-approx. 5N, Dilute Acetic acid, approx. 1N, Hydrogen Sulphide solution, Standard Lead solution, Analytical weighing balance.
4.	Arsenic Cl 4.5.2, Table 1, Sl.no. v) and Cl 4.6.2, Table 2, Sl.no. iv) (Annex G of IS 8481)	Mixed acid, Ferric Ammonium Sulphate solution, Conc. Hydrochloric acid, Stannous Chloride solution, Gutzeit bottle, Arsenic trioxide.
5.	Hydrogen Peroxide content Cl 4.6.2, Table 2, Sl. ii)	Dilute Sulphuric Acid, Potassium Permanganate Solution Freshly Standardized (N/10), Analytical weighing balance.
6.	Identification and estimation of Dye ingredients by HPLC Cl. 4.5.2, Table 1, Sl. No. (ii) & (iii), (Annex D of IS 8481)	Soerensen buffer (buffer solution pH 8)- Add 440 ml of 0.1 M hydrochloric acid and 2 g L - Ascorbic acid sodium salt to 560 ml of 0.1 M sodium tetra borate decahydrate solution, mix and filter through 0.45 mm filter (ensure that the final pH is 8)
		Methanol HPLC Grade
		n- heptane
		Dye chemicals like <i>p</i> -phenylenediamine, N, N, Bis-2 hydroxyethyl-PPD sulphate, Resorcinol, Aminophenols.

		Column — Merck Lichrospher RP60 B (C8), 250 mm x 10 mm, 5 mm particle size
11.	Identification and estimation of Dye ingredient by TLC Cl. 4.5.2, Table 1, Sl. No. (iii), (Annex E of IS 8481)	Weighing Balance
		TLC Plates — Precoated silica gel 60 F254 0.2 mm thickness
		Iodine Chambers
		TLC Apparatus/Beakers — 250 ml (narrow).
		Pipette - 10 ml
		Syringe — 5 or 10 ml capacity.
		Silicone Wax
		Benzene, AR grade
		Ethyl Acetate, AR grade
		Methanol, AR grade
		Sodium Sulphite, AR grade
		Standards — Expected dye precursors/ ingredients in the respective shade being analyzed

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

ANNEX – B
TO PRODUCT MANUAL FOR
OXIDATION HAIR DYES (LIQUID, GEL AND CREAM)
ACCORDING TO IS 8481 : 2020

SCHEME OF INSPECTION AND INSPECTION

1. LABORATORY - A laboratory shall be maintained, which shall be suitably equipped and staffed, where different tests given in the specification shall be carried out in accordance with the method given in the specification.

1.2 The manufacturer shall prepare 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 or the label applied to it provided always that the material so marked conform to the requirements of the specification.

3.1 Marking - Each container and the carton containing the material shall be legibly marked with the information provided under clause 5.3.1 of IS 8481 including the following cautions:

- i. Keep out of reach of children.
- ii. This product is not intended for use on persons under the age of 16.
- iii. This product contains ingredients which may cause skin irritation in certain cases and so a preliminary test according to the accompanying direction should first be made.

In addition, each container and the carton containing the material shall be legibly marked with the following:

- a) BIS Licence No. CM/L_____.
- b) BIS website details i.e - “For details of BIS certification scheme, see website www.bis.gov.in”.

3.1.1 In addition, the information provided under clause 5.3.2 shall also be given (in the leaflet which is inserted in the container packing of the dye and developer, or may be printed on the carton itself, as the case may be).

3.2 Packing – The dye and developer shall be packed separately and packed in suitable containers. The dye and the developer are packed in the same carton. The individual containers and the carton shall be suitably labelled.

3.3 Storage – Material shall be stored such that it is protected from heat and sunlight.

4. CONTROL UNIT - For the purpose of this scheme, Oxidation hair dyes, liquid, gel and creams of one type blended at a time shall constitute one 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.

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

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

TABLE 1
LEVELS OF CONTROL

(1) Test Details					(3)		
				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Description	4.1	IS 8481	R	One	Each Control Unit	
4.2, 4.3, 4.4	Ingredients	4.2, 4.3 4.4	-do-	S	The manufacturer shall declare the formulation of the product to BIS (Indicating the ingredients to the IS. As and when any novel ingredient is added in the formulation, the same shall be declared by the manufacturer to BIS indicating compliance to the IS. Each consignment of ingredients shall be accompanied with test certificate indicating compliance to the requirements of the Indian Standard.		
4.5, Table 1	Requirements for Dye						
i)	pH	Annex A	IS 8481	R	One	Each control unit	
ii)	Active matter as PPD	Annex B or D	-do-	R	One	-do-	

	content						
iii)	Dye Ingredients	Annex D or E	-do-	R	One	-do-	
iv)	Heavy Metals Lead (Pb)	Annex F	-do-	S	One	Every Six Months	
v)	Arsenic (as As ₂ O ₃)	Annex G	-do-	S	One	-do-	
4.6, Table 2	Requirements for developer						
i)	pH	Annex A	IS 8481	R	One	Each control unit	
ii)	Assay (as H ₂ SO ₄)	Annex C	-do-	R	One	-do-	
iii)	Heavy Metals Lead (Pb)	Annex F	-do-	S	One	Every Six Months	
iv)	Arsenic (as As ₂ O ₃)	Annex G	-do-	S	One	-do-	
4.9	Additional requirements for ECO MARK (optional)						
4.9.1	General Requirements	4.9.1.1 to 4.9.1.9	IS 8481	R	One	Each control unit	
4.9.2	Specific requirements						
4.9.2.1	Dermatological safety	-	IS 4011	S	One	Every three months and when novel ingredient is added.	
4.9.2.2	Heavy metals (as Pb) and Arsenic (as As ₂ O ₃)	Annex F & G	IS 8481	S	-do-	Every six months	

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 empaneled 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.