



उत्पाद मैनुअल

क्लोरीनयुक्त पैराफिन (सीपी) - आईएस 14426: 1997 के अनुसार
PRODUCT MANUAL FOR
CHLORINATED PARAFFINS (CP) – SPECIFICATION
ACCORDING TO IS 14426: 1997

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 license/certificate.

1.	उत्पाद Product	:	IS 14426: 1997
	शीर्षक Title	:	CHLORINATED PARAFFINS (CP) - SPECIFICATION
	संशोधन संख्या No. of Amendments	:	Nil
2.	नमूनाकरण दिशानिर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	Nil
b)	समूहिकरण दिशानिर्देश Grouping guidelines	:	Sample of each grade shall be tested.
c)	नमूने का आकार Sample Size	:	1 liter
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – A
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – B

5.	एक दिन में संभावित परीक्षण Possible tests in a day:	
	i. Description ii. Chlorine content iii. Colour iv. Relative density v. Absolute viscosity vi. Free mineral acidity vii. Volatile loss viii. Thermal stability Index	
6.	लाइसेन्स का कार्यक्षेत्र/ Scope of the Licence:	
	“Licence is granted to use Standard Mark as per IS 14426: 1997 with the following scope:	
	Name of the product	Chlorinated Paraffins (CP) - Specification
	Grade	Grade I/ Grade II/ Grade III/ Grade IV/ Grade V

Annex-A
List of Test Equipment

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with CI Reference	Test Equipment
1	Chlorine Content (CI 5.2 Table 1 Sl no- i)	1. Reaction Vessel 2. Benzyl Alcohol 3. Silver nitrate (AgNO_3) solution. 4. Butyl Alcohol 5. Ferric Alum Indicator Solution. 6. Isoamyl Alcohol 7. Naphtha 8. Nitric Acid (1:7) 9. Phenolphthalein Indicator Solution 10. Silver Nitrate 11. Sodium. 12. Sodium Hydroxide 13. Thiocyanate, Standard Solution (0.05 N)
2	Colour (CI 5.2 Table 1 Sl No- ii)	1. Comparator/ Calorimeter/ Spectrophotometer(Optional) 2. Distilled Water 3. Cobalt (II) Chloride Hexahydrate ($\text{CoCl}_2 \cdot 6\text{H}_2\text{O}$) 4. Hydrochloric Acid 5. Chloroplatinic Acid or Potassium Chloroplatinate (K_2PtCl_6) 6. Calorimetric Tubes. 7. Nessler Cylinders 8. Volumetric Flask 9. Stoppered Glass Bottles
3	Relative Density (CI 5.2 Table 1 Sl no- iii)	1. Gravity Bottle/ Pycnometer 2. Water Bath 3. Thermometer (0.1 or 0.2°C Sub-Divisions)
4	Absolute Viscosity (CI 5.2 Table 1 Sl No- iv)	1. Chromic Acid Cleaning Solution/ Non-Chromium-Containing Strong-Oxidizing Acid Cleaning Solution 2. Sample Solvent (Volatile Petroleum Spirit/ Naphtha) 3. Deionized or Distilled Water 4. Certified Viscosity Reference Standards 5. Viscometers 6. Viscometer Holders 7. Temperature-Controlled Bath 8. Thermometer 9. Stopwatch
5	Free Mineral Acidity (CI 5.2 Table 1 Sl no- v)	1. Toluene. 2. Sodium Hydroxide Solution (0.1 N) 3. Bromophenol Blue Indicator 4. Sodium Chloride Solution
6	Pour point (CI 5.2 Table 1 Sl no- vi)	1. Test jar. 2. Temperature measuring device (Digital contact thermometer (DCT)/ Liquid-in-glass thermometers)

		3. Cork. 4. Jacket. 5. Disc. 6. Gasket. 7. Cooling baths 8. Cooling mixtures 9. Timing device
7	Volatile Loss (Cl 5.2 Table 1 Sl no-vii)	1. Oven 2. Petridish 3. Desiccator 4. Asbestos Disc
8	Thermal Stability Index (Cl 5.2 Table 1 Sl no- viii)	1. Necked Flask 2. Electrically Heated Oil Bath 3. Flow Meter

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

ANNEX- B**Scheme of Inspection and Testing**

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 equipment.

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

3. LABELLING AND MARKING – The Standard Mark as given in the Schedule of the license shall be marked on the Chlorinated Paraffins containers provided always that material so marked conform to requirements of the specification.

3.1 Packing and Marking shall be done as per the provisions of the Indian Standard. In addition, the following shall be incorporated on each Chlorinated Paraffin containers:

i) BIS Licence Number CM/Land

ii) 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, Chlorinated Paraffins (CP) of same Grade manufactured in one day from the same batch of raw material 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 Standard 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 provisions of BIS Act, 2016.

TABLE 1

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl	Requirement	Test Method			No. of Samples	Frequency	Remarks
		Clause	Reference				
5.1	Description	5.1	IS 14426:1997	R	Firm to have adequate in-process controls to check compliance of this parameter given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity.		
5.2., Table-1	Chlorine content	Annex A	IS 14426: 1997	R	One	Each Control unit	
5.2, Table-1	Colour	6	IS 9591: 1996	R	One	-Do-	
5.2, Table-1	Relative density	7	IS 9591: 1996	R	One	-Do-	
5.2, Table-1	Absolute viscosity	-	IS 1448: Part 25: Sec 1: 2018	R	One	-Do-	
5.2, Table-1	Free mineral acidity	Annex B	IS 14426: 1997	R	One	-Do-	
5.2, Table-1	Pour point	-	IS 1448: Part 10: Sec 2: 2021	S	One	Once in a month	
5.2, Table-1	Volatile loss	Annex C	IS 14426: 1997	R	One	Each Control unit	
5.2, Table-1	Thermal stability Index	Annex D	IS 14426: 1997	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 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 level of control in column 3 with proper justification for approval by BO Head.