



उत्पाद मैनुअल
कॉपर ऑक्सीक्लोराइड वॉटर डिसपर सबल पाउडर कॉन्संट्रेट
आई एस 1507 : 2024 के अनुसार

**PRODUCT MANUAL
FOR COPPER OXYCHLORIDE WATER DISPERSIBLE POWDER CONCENTRATES
ACCORDING TO IS 1507: 2024**

व भन्न उत्पादों के लए भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) वनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या IS No.	:	IS 1507 : 2024
	शीर्षक Title	:	Copper Oxychloride Water Dispersible Powder Concentrate
	संशोधनों की संख्या No. of amendments	:	NIL
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Copper Oxychloride, technical employed in the manufacture of Copper Oxychloride Water Disposable Powder Concentrates shall conform to IS 1486 Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/Factory Surveillance
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Please refer Annex-A Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (in

			case of market surveillance, effort may be made to procure the required quantity of product sample, as far as possible since raw material sample may not be available in market).
c)	नमूने का परिमाण Sample Quantity	:	500g
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request		1) Nominal Declared Value of Copper Content (m/m) Note: Apart from the above, any other requirements/parameters may also be declared as per the standard, as applicable.
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – B.
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – C.
5.	एक दिन में संभावित परीक्षण Possible tests in a day		
	All tests are possible to be carried out in a day Note: This section is for the guidance of BIS Certification Officers/Technical Auditors of BIS Authorized Outside Surveillance Agencies (OSAs) during factory inspection to provide ready reference regarding the tests which can be witnessed during the inspection in the factory by the officer/auditor.		
6.	लाइसेंस का दायरा / Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 1507 : 2024 with the following scope:		
	Name of the product	Copper Oxychloride Water Dispersible Powder Concentrates	
	Copper Content (m/m) (nominal value, percent)	E.g. 9 to up to and including 50	

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ANNEX – A

GROUPING GUIDELINES

1. Grouping based upon Copper Content (m/m) of Copper Oxychloride Water Dispersible Powder Concentrate

- a) Manufacturer shall declare the nominal range of Copper Content (m/m) of Copper Oxychloride Water Dispersible Powder Concentrate being manufactured

Group	Copper Content (m/m) (nominal percent) value,	Remarks
1	Up to 9	One sample of Copper Oxychloride Water Dispersible Powder Concentrate having any Copper Content (m/m) shall be drawn to cover the entire range of Copper Content (m/m) of Copper Oxychloride Water Dispersible Powder Concentrate within the Group
2	Above 9 and below 50	One sample of Copper Oxychloride Water Dispersible Powder Concentrate having any Copper Content (m/m) shall be drawn to cover the entire range of Copper Content (m/m) of Copper Oxychloride Water Dispersible Powder Concentrate within the Group
3	50 and above	One sample of Copper Oxychloride Water Dispersible Powder Concentrate having any Copper Content (m/m) shall be drawn to cover the entire range of Copper Content (m/m) of Copper Oxychloride Water Dispersible Powder Concentrate within the Group

2. Scope of licence shall be restricted based on the manufacturing and testing facilities available.
3. During operation of licence, samples of each variety covered in the scope of licence, shall be tested rotation, to the extent possible.

LIST OF TEST EQUIPMENTS
(INDICATIVE LIST, FOR GUIDANCE ONLY)

S. No.	Tests used in with Clause Reference	Test Equipment / Chemicals / Glassware
1	Copper Content Cl 2.3, Table 1 (Appendix A of IS 1506)	(a) Analytical balance, L.C. 0.01g (b) Conical flask-500ml (c) Measuring flask-50 ml (d) Heating mantle (e) Burette (f) Nitric Acid sp. gr. 1.42 (g) Urea (h) Sodium Carbonate(anhydrous) (i) Dil. Acetic Acid- 10% (j) Sodium Thiosulphate solution- 0.1N, standardized with potassium iodate or potassium dichromate (k) Starch Indicator solution-1%(m/v) (l) Potassium or ammonium Thiocyanate
2	Suspensibility Cl 2.3, Table 1 (cl 11.2 of IS 6940)	(a) Beaker- of 6.0 to 6.5 cm internal diameter and 250 ml capacity (b) Pressure assembly - a piston or disc, loosely fitting in the beaker and so formed or weighed as to exert an even pressure of 25 g/cm ³ . (c) Graduated Cylinder- of capacity 250ml with a ground glass stopper. The distance between 0 and 250 ml marks shall be 21.0±0.5cm with the clearance of 6.0 to 8.0 cm between 250 ml mark and the neck of the cylinder (d) Glass Tube- About 40 cm long, of an internal diameter of about 5 mm, drawn at one end to an opening of 2 to 3mm diameter, with the other end connected to a vacuum pump. (e) Standard Hard water- dissolve 0.3040g of CaCl ₂ anhydrous and 0.1390g of MgCl ₂ .6H ₂ O in distilled water and make up to 1L in a volumetric flask.
3.	pH of 1% aqueous dispersion Cl 2.3, Table 1 (Appendix A of IS 1507)	(a) pH meter-equipped with glass electrode system. (b) Measured Cylinder- 100 ml Capacity (c) Volumetric flask-100 ml (d) Buffer- pH 7.0 (e) Analytical balance- L.C. 0.01g

ANNEXE – B
SCHEME OF INSPECTION AND TESTING

1. QUALITY ASSURANCE PLAN

1.1 It is expected that manufacturers (licensees/applicants) will implement a Quality Assurance Plan i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan defining the control unit (i.e. lot/batch etc.) and the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and submit the same to BIS Branch Office for information. The manufacturer shall comply with the same and maintain test records in accordance with para 2.4.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.3.1 For the guidance of manufacturers, the recommended definition of control unit is : For the purpose of this scheme, the entire quantity of material blended in a mixer in one operation shall constitute a control unit.

1.3.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**.

1.3.3 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan. Alternatively, the manufacturer has the option of adherence to the quality plan as per levels of control recommended in column 3 of Table 1.

1.4 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

2. ENSURING COMPLIANCE THROUGH TESTING- It is expected that manufacturers (licensees/applicants) will establish a suitably equipped and staffed in house laboratory (In house testing facility) for testing at least those parameters of the Indian Standard which require routine testing for ensuring quality of the product. This includes in-process controls as may be defined and put in place by the manufacturer and testing parameters/requirements which can only be performed in the factory.

2.1 For the guidance of manufacturers, Table 1 giving the recommended levels of control is given below. Column 2 of Table 1 indicates routine tests where test equipment is required in house as “R” or other tests which can be subcontracted as “S”. Subcontracting is permitted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.2 For MSME manufacturers, the requirement of maintaining a laboratory/in-house testing facility for routine tests (indicated as “R” in Column 2 of Table 1) is also optional.

2.2.1 MSME manufacturers may utilize common cluster based facilities as per guidelines for the utilization of cluster based test facilities by MSMEs or the provisions of Sharing of testing facilities or get testing done from BIS recognized/empaneled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025.

2.3 Large Scale manufacturers shall maintain an in-house laboratory equipped at least with test facilities for routine tests (indicated as “R” in Column 2 of Table 1), where different tests given in the specification shall be carried out in accordance with the method given in the specification. They shall also implement a calibration plan for the in-house test equipment.

2.3.1 Alternatively, in lieu of an in-house laboratory, large scale manufacturers can also utilize the provisions of Sharing of testing facilities as per the Guidelines for Grant of Licence available on BIS website www.bis.gov.in. (Under Conformity Assessment>Product Certification Process). Even for subcontracted tests, provisions for sharing of testing facilities can be utilized.

2.4 TEST RECORDS- The manufacturers maintaining an in-house laboratory or utilizing common cluster based facilities or shared test facilities shall maintain test records for the tests carried out to establish conformity. For the tests being subcontracted to BIS recognized/empanelled laboratory or any other laboratory having valid NABL accreditation as per IS/ISO/IEC 17025, test reports issued by the laboratories shall be available for inspection by BIS.

3. PACKING AND MARKING - The Standard Mark, as given in the Schedule of the licence, shall be stenciled/printed on each container of Copper oxychloride water dispersible powder concentrates or printed on the label applied to it, as the case may be, provided always that the material in each container to which this mark is thus applied, conform to every requirement of the specification.

3.1 Packing and Marking shall be done as per the Indian Standard.

4. REJECTION - All the production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. 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
(ONLY FOR GUIDANCE PURPOSE)

(1)				(2)	(3)		
Test Details				Test equipment requirement R: required (or)S: Sub-contracting permitted	Levels of Control		
Clause	Requirement	Test Methods Cl. Ref.	Test method IS		No. of Sample	Frequency	Remarks
3.1	Description	3.1	IS 1507	R	Manufacturer shall ensure adequate in-process controls to ensure that the material conforms to the specification. Wherever required, appropriate records shall be maintained.		
3.2	Description	3.2	IS 1507	S	The Copper Oxychloride, technical used in the manufacture of this product shall conform to IS 1486. Each consignment of Copper Oxychloride, technical received shall be accompanied by a test certificate from the supplier regarding its conformity to IS 1486. Alternatively, a sample from each consignment received shall be tested for its conformity to the specification. Appropriate record for all these tests shall be maintained		
3.3 & Table 1	Copper Content	3.3.1, Annex B	IS 1506	R	Two	-do-	
3.3 & Table 1	Suspensibility	IS 6940	IS 6940	R	One	-do-	

3.3 & Table 1	pH of 1% aqueous dispersion	Annex A	IS 1507	R	One	-do-	
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