



**PRODUCT MANUAL FOR
Chlorine Tablets
ACCORDING TO IS 9825:2003**

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.	Product	:	IS 9825:2003
	Title	:	Chlorine Tablets
	No. of Amendments	:	1
2.	Sampling Guidelines:		
a)	Raw material	:	a) Bleaching powder - IS 1065 b) Sodium Chloride - IS 253 c) Iodized salt - IS 7224
b)	Grouping guidelines	:	One sample of any weight to be drawn to cover all sizes of the tablets. Scope of the Licence may be restricted based on the Manufacturing and testing capabilities of the Manufacturer
c)	Sample Size	:	1 Kg
3.	List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>
5.	Possible tests in a day :		
	<ul style="list-style-type: none"> • Description • Size • available free Chlorine 		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 9825:2003 with the following scope:		
	Name of the product	CHLORINE TABLETS	
	Sizes	2.5/ 2.0/ 1.0/ 0.5/ 0.25 gm	

ANNEX AList of Test Equipment*Major test equipment required to test as per the Indian Standard*

Sl. No.	Tests used in with Clause Reference	Test Equipment
1	Description Cl 4.1	Visual
2	Size & available free Chlorine Cl 4.3	Sodium Thiosulphate solution
		Starch indicator solution
		Potassium Iodide
		Glacial acetic acid
		Sodium Bicarbonate
		Hydrochloric acid
		Reagent Grade water
		Fused Anhydrous Calcium Chloride
		Potassium Dichromate
		Oven, Weighing Balance
		glass-stoppered flask 250 ml,
		Pipettes, Dropping pipettes, mortar pestle
		Funnel, Burette , meas. Cylinder
3.	Moisture Cl 4.4	Weighing balance (Least count 0.0001gm)
		Vacuum pump (Range 0-760 mm Hg Least count - 10mmHg)
		Vacuum Desiccators with anhydrous Calcium Chloride

		Mortar and Pestle
		Dryer
		Hot Plate

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 a calibration plan for the test equipments.

2. TEST RECORDS – All records of test shall be required by the Bureau shall be made available at any time on request.

3. PACKING AND MARKING Packing and marking shall be done as per the provision of the IS 9825:2003. In addition, the following details shall be mentioned on each pack legibly and indelibly:

- 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 – The entire quantity of the tablets of the same size produce in one mix 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 licence should be marked with Standard Mark.

6. HYGIENIC CONDITIONS –Wherever applicable, hygienic conditions shall be complied in day to day production and quality control activities. Schedule for each activity for this purpose shall be displayed prominently in the factory premises and records of compliance shall be maintained.

7. 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 Sample	Frequency	Remarks
		Clause	Reference				
4.1	Formulation	4.1	IS 9825:2003	S	One	Each Batch	No testing is required in case, Test Certificate is received with each consignment
4.2	Description	4.2	IS 9825:2003	R	Five	Each Batch	
4.3	Size Mass of tablet& amount of chlorine	a) 4.3 b) Annex-A	IS 9825:2003	R	a) Five b) Two	Each Batch	
4.4	Moisture ,percent by mass	Annex-B	IS 9825:2003	R	Two	Each Batch	
5	Shelf life	5	IS 9825:2003	R	One	Each Batch	

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.