



**PRODUCT MANUAL FOR
SQUARE TINS FOR SOLID PRODUCTS
ACCORDING TO IS 916:2000**

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 916:2000
	Title	:	Square Tins for Solid Products
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per clause 4.3 of IS 916: 2000
b)	Grouping guidelines	:	Square Tins of 18-litre capacity only are covered in the Standard. If Tins with handle are tested, Tins without handle may also be covered in the Scope of Licence.
c)	Sample Size	:	Three Square Tins
3.	List of Test Equipment	:	Please refer ANNEX – A
4.	Scheme of Inspection and Testing	:	Please refer ANNEX – B
5.	Possible tests in a day	:	All Tests
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 916: 2000 with the following scope:		
	Name of the product	Square Tins for Solid Products	
	Type	With handle / Without Handle	

ANNEX A**List 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	Material (Clause 4.3.1)	Micrometer
2.	Tin Coating Thickness (Clause 4.3.1.1)	As per IS 1327 or any other established instrumental or chemical method
3	Handle (Clause 4.3.2)	Micrometer
4.	Solder (Clause 4.3.3)	As per IS 998(Part 1) or any other established instrumental or chemical method
5	Dimensions (Clause 4.2)	(i) Measuring Tape (ii) Steel Scale (iii) Vernier Calliper
6	Capacity (Clause 4.1)	(i) Hydrometer (ii) Measuring Jars (iii) Thermometer (iv) Weighing Balance
7	Air Pressure Test (Clause 5.1)	(i) Air Pressure Test Equipment (ii) Pressure Gauge (iii) Reservoir
8	Handle Pull Test (Clause 5.2)	(i) Connecting Rod (ii) Handle Pull Test Apparatus (iii) Spring Balance

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

3. LABELLING AND MARKING – As per the requirement of IS 916: 2000.

4. 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.

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

5. 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				
4.3	Material (except thickness)	4.3.1, 4.3.3, 4.3.3.1	IS 916	S	One	Each Consignment	No further testing is required if the consignment is accompanied with test certificate or ISI marked.
4.3.1	Thickness of tinplate	4.3.1	IS 916	R	Three	Each Consignment	---
4.3.1.1	Tin coating thickness	4.3.1.1	IS 916	R	One	Each Consignment	---
4.3.2	Handle wire material	4.3.2	IS 916 IS 280	-	-	-	Material shall be ISI marked
4.1	Capacity	4.1	IS 916	R	One	Every Continuous four hour's production	In case of failure, all the tins manufactured during four hours shall be checked and defective tins shall be rejected.
4.2	Dimensions	4.2, Fig. 1	IS 916	R	One	Every Continuous four hours production	
4.4	Manufacture	4.4.1 to 4.4.9	IS 916	R	-	Each tin	Tins found non-conforming shall be rejected.
5.1	Air pressure test	3	IS 2471	R	-	Each tin	Tins found non-conforming shall be rejected.
5.2	Handle Pull test (if handle provided)	5	IS 2471	R	One	Every Continuous two hours production	In case of failure, entire production of two hours shall be tested and those found failing shall be rejected.

Note-1: 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.