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उत्पाद मानुयल

LABORATORY GLASSWARE - BOILING FLASKS: PART 2 BOILING FLASKS WITH CONICAL GROUND JOINTS (THIRD REVISION) IS 1381 (Part 2): 2019 के अनुसार

PRODUCT MANUAL FOR LABORATORY GLASSWARE - BOILING FLASKS: PART 2 BOILING FLASKS WITH CONICAL GROUND JOINTS (THIRD REVISION) ACCORDING TO IS 1381 (Part 2): 2019

भारतीय मानक ब्यूरो (अनुरूपता मूल्यांकन) विनियम की स्कीम -I के तहत यह उत्पाद मानुयल प्रमाणीकरण के प्रचलन में रीती और पारदर्शिता के सुसंगिता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाईसेंस धारियों द्वारा सन्दर्भ सामग्री के रूप में उपयोग किया जाएगा बीआईएस लाईसेंस /प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज 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.	Product	:	IS 1381 (Part 2): 2019
	Title	:	Laboratory glassware - Boiling flasks: Part 2 boiling flasks with conical ground joints (Third Revision)
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per Cl 5 of IS
b)	Grouping guidelines	:	Please refer ANNEX – A
c)	Sample Size	:	2 no.
3.	List of Test Equipment	:	Please refer ANNEX –B
4.	Scheme of Inspection and Testing	:	Please refer ANNEX –C
5.	Possible tests in a day	:	All tests
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 1381 (Part 2): 2019 with the following scope:		
	Name of the product	:	Laboratory glassware - Boiling flasks with conical ground joints

Type of Flask	Conical flask / Flat-bottom flask /Round-bottom flask
Series	Series 1/Series 2
Nominal Volume	10 ml, 25 ml, 50 ml..... 20000 ml (as applicable for the type of flask and series given at Table no 1, 2 and 3)
Joint size	14/23, 19/26.....55/44 (as applicable for the type of flask, series and Nominal Volume given at Table no 1, 2 and 3)

BUREAU OF INDIAN STANDARDS
Manak Bhawan, 9, Bahadurshah Zafar
Marg, New Delhi – 110002

ANNEX – A

Grouping Guidelines

1. The parameters given below shall be considered for grouping of Laboratory glassware - boiling flasks with conical ground joints according to IS 1381 (Part 2): 2019 for GoL/CSoL:

a) Type of Flask: Conical flask / Flat-bottom/ Round-bottom flask

b) Series: Series 1/Series 2

c) Nominal Capacity

Group	Nominal Volume
I	From 10 ml upto and including 3000 ml
II	Above 3000 ml upto and including 20000 ml

2. The highest and lowest nominal capacity of each Type (Conical flask / Flat-bottom and round-bottom flask) and each series (Series 1/Series 2) from each group shall be tested to cover the entire nominal capacities from the particular group.

3. The Firm shall declare the varieties of Laboratory glassware - Boiling flasks with conical ground joints intended to be covered in the Licence. The Scope of Licence may be restricted based on the Manufacturing and testing capabilities of the Manufacturer.

4. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

ANNEX B

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	Nominal volume	Measuring jar
2	Dimension, 6	Vernier Calliper, Steel Scale Micrometre Height Gauge
3	Ground glass joints, 7	Vernier Calliper Go No-Go guage
4	Surface finish	Roughness tester
5	Leakage test, Annex B ISO 383:1976	Apparatus for leakage test, U-tube Manometer Vaccum Pump
6	Thermal Shock Endurance, 8	Cold water bath, Oven with temperature Indicator, Stopwatch, tongs, Gloves, Basket

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

ANNEX C

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. PACKAGING AND MARKING – The Standard mark as given in the Schedule of the licence shall be permanently and legibly marked on each flask provided always that the flask to which this mark is thus applied conforms to every requirement of the specification

3.1 Labelling and marking shall be done as per the provision of the IS 1381 (Part 2): 2019. 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 – For the purpose of this Scheme, the flasks of same type (conical or round bottom or flat bottom), same series, same joint size and same nominal volume manufactured in one day from the same consignment 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.

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 Sample	Frequency	Remarks
		Clause	Reference				
5	Material	5	IS 1381 (Part 2): 2019	S	-	Each consignment	No testing is required in case, Test Certificate is received with each consignment
6	Dimension	6	IS 1381 (Part 2): 2019	R	Firm to have adequate in-process controls to check compliance of this parameter as per the tolerances given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
7	Ground Glass Joints	7	IS 1381 (Part 2): 2019	R			
	Surface finish	7	ISO 383 : 1976	R			
	Leakage test	Annex B	ISO 383 : 1976	R	One Flask	Each control unit	
8	Thermal Shock Endurance	8	IS 1381 (Part 2): 2019	R	One Flask	Each control unit	

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.