



**PRODUCT MANUAL FOR  
MICROSCOPES - SLIPS AND SLIDES  
ACCORDING TO IS 3099 (PARTS 1 AND 2):1992**

*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.	<b>Product</b>	:	IS 3099 (Part 1): 1992/ IS 3099 (Part 2): 1992
	<b>Title</b>	:	Microscope Slips/ Microscope Slides
	<b>No. of Amendments</b>	:	4
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	As per Clause 2 of the respective Part of IS 3099
b)	<b>Grouping guidelines</b>	:	Microscope Slips/ Slides of any size intended to be covered in the licence shall be tested for considering Grant of Licence as per the respective Part of IS 3099.
c)	<b>Sample Size</b>	:	1 Package (50 pieces or 100 pieces)
3.	<b>List of Test Equipment</b>	:	Please refer ANNEX – A
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer ANNEX – B
5.	<b>Possible tests in a day :</b>		
	All tests (as per the respective Part of IS 3099).		
6.	<b>Scope of the Licence:</b>		
	“Licence is granted to use Standard Mark as per IS 3099 (Part 1): 1992 / IS 3099 (Part 2): 1992 with the following scope:		
	Name of the product	Microscope Slips / Microscope Slides	

**ANNEX A****List of Test Equipment***Major test equipment required to test as per the Indian Standard***Microscope Slips - IS 3099 (Part 1): 1992**

<b>Sl. No.</b>	<b>Tests used in with Clause Reference</b>	<b>Test Equipment</b>
1.	Optical properties (Clause 2.1)	Refractometer
2.	Dimensions (Clause 3, 3.1 and Table 1)	Vernier caliper Micrometer
3.	Visible seed (Clause 4)	Magnification glass/ Microscope
4.	Surface finish and Edge quality (Clause 5.1, 5.2)	Magnification glass/ Microscope

**Microscope Slides - IS 3099 (Part 2): 1992**

<b>Sl. No.</b>	<b>Tests used in with Clause Reference</b>	<b>Test Equipment</b>
1.	Optical properties (Clause 2.1)	Refractometer
2.	Dimensions (Clause 3, 3.1 and Table 1)	Vernier caliper Micrometer
3.	Visible seed (Clause 4)	Magnification glass/ Microscope
4.	Surface finish (Clause 5.1)	Magnification glass/ Microscope
5..	Parallelism (Clause 6)	Ruler/ Vernier caliper Angle Protractor
6.	Edge quality (Clause 7)	Magnification glass/ Microscope

*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 requirements of the respective Part of IS 3099.

**4. CONTROL UNIT**

(a) Microscope Slips of the same size manufactured in a day from the same consignment of material shall constitute a control unit.

(b) Microscope Slides of the same size manufactured in a day from the same consignment of material shall constitute a control unit.

**5. LEVELS OF CONTROL** - The tests as indicated in column 1 of Table 1A & Table 1B and the levels of control in column 3 of Table 1A & Table 1B, 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. 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 A****Microscope Slips - IS 3099 (Part 1): 1992**

(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				
2	Material	2	IS 3099 (Part 1)	--	10	Each Batch/ Consignment	The total quantity procured at a time from one supplier shall constitute a batch/ consignment.
2.1	Optical properties	2.1	IS 3099 (Part 1)	R	10	Each Batch/ Consignment	In case the material is accompanied with manufacturer's test certificate, the sample size may be reduced to one.
3	Dimensions	3, 3.1 and Table 1	IS 3099 (Part 1)	R	2	Every half -an- hour production	In case of failure, the entire representative lot shall not be marked.
4	Visible seed	4	IS 3099 (Part 1)	R	10	Each control unit	In case of failure, the control unit shall not be marked. The reasons for failure shall be investigated and corrective actions shall be taken.
5.1	Surface finish	5.1	IS 3099 (Part 1)	R	10	Each control unit	
5.2	Edge quality	5.2	IS 3099 (Part 1)	R	Each Slip		The defective slips shall not be marked.

**Note:** Levels of control given in column 3 are 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.

**TABLE 1 B****Microscope Slides - IS 3099 (Part 2): 1992**

(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				
2	Material	2	IS 3099 (Part 2)	--	10	Each Batch/ Consignment	The total quantity procured at a time from one supplier shall constitute a batch/ consignment.  In case the material is accompanied with manufacturer's test certificate, the sample size may be reduced to one.
2.1	Optical properties	2.1	IS 3099 (Part 2)	R	10	Each Batch/ Consignment	
3	Dimensions	3, 3.1 and Table 1	IS 3099 (Part 2)	R	2	Every half -an-hour production	In case of failure, the entire representative lot shall not be marked.
4	Visible seed	4	IS 3099 (Part 2)	R	10	Each control unit	In case of failure, the control unit shall not be marked. The reasons for failure shall be investigated and corrective actions shall be taken.
5	Surface finish	5	IS 3099 (Part 2)	R	10	Each control unit	
6	Parallelism	6	IS 3099 (Part 2)	R	10	Each control unit	
7	Edge quality	7	IS 3099 (Part 2)	R	Each slide		The defective slides shall not be marked.

**Note:** Levels of control given in column 3 are 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.