



उत्पाद मानुयल
PAPER ADHESIVES, LIQUID GUM AND OFFICE PASTE TYPE -
SPECIFICATION
IS 2257:1989 के अनुसार
PRODUCT MANUAL FOR
PAPER ADHESIVES, LIQUID GUM AND OFFICE PASTE TYPE -
SPECIFICATION
ACCORDING TO IS 2257 : 1989

भारतीय मानक ब्यूरो)अनुरूपता मूल्यांकन (विनियम की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरणके प्रचलन मे रीति और पारदर्शिता के सुसंगता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप मे उपयोग किया जाएगा। बीआईएस लाइसेन्स/प्रमाण पत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज़ 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.	उत्पाद Product	:	IS 2257 : 1989
	शीर्षक Title	:	PAPER ADHESIVES, LIQUID GUM AND OFFICE PASTE TYPE
	संशोधन संख्या No. of Amendments	:	2
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		

a)	कच्चा माल Raw material	:	NA
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	NA
c)	नमूने का परिमाण Sample Size	:	2 x 750 ml
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer ANNEX – <u>A</u>
4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	Please refer ANNEX – <u>B</u>
5.	एक दिन में संभावित परीक्षण /Possible tests in a day :		
	(i) Description (ii) Determination of Total solids (iii) pH value (iv) Adhesive strength (v) Brittleness and Moisture Absorption of the dried film (vi) Consistency at $27 \pm 2^\circ\text{C}$		
6.	लाइसेन्स का कार्यक्षेत्र /Scope of the Licence :		
	IS 2257:1989 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्रके लिए प्रदान किया जाता है “Licence is granted to use Standard Mark as per IS 2257 : 1989 with the following scope:		
	Name of the product	PAPER ADHESIVES, LIQUID GUM AND OFFICE PASTE TYPE	
	Type	There are three types : Type A Type B Type C	
	Any other aspect required as per the Standard	NA	

ANNEX A
TO THE PRODUCT MANUAL
FOR PAPER ADHESIVES,
LIQUID GUM AND OFFICE PASTE TYPE AS PER IS 2257:1989

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.	Determination of total solids (Clause 4.2, Table 1)	Weighing balance, tared porcelain basin (7.5 Diameter), Water-bath, Air-Oven, Desiccator.
2.	Determination of pH value (Clause 4.2, Table 1)	Weighing balance, pH meter and Distilled water
3.	Adhesion strength (Clause 4.2, Table 1)	Humidity chamber for maintaining $27 \pm 1^{\circ}\text{C}$ and relative humidity of 65 ± 5 percent. Others- offset cartridge paper, machine glazed paper, machine finished printing paper and kraft paper, strawboard, packing case wood, planned and smoothened with sand paper, rough unbleached cloth, and pane glass, squeegee, spatula or similar non-absorbent
4.	Brittleness and Moisture Absorption of the dried film	Graduated cylinder, Humidity chamber for maintaining $27 \pm 1^{\circ}\text{C}$ and relative humidity of 65 ± 5 percent, Kraft Paper, Wooden Office Ruler of 2.5 cm diameter
5.	Stability at 37°C	Petri dish (100 mm diameter), Incubator (maintained at a temperature of $37 \pm 1^{\circ}\text{C}$)
6.	Consistency at $27 \pm 2^{\circ}\text{C}$	Two methods have been recommended, Method A by Redwood and Method B by Flow cup viscometers. Method A- Redwood viscometer, Hot plate, Stopwatch. Method B- Flow cup viscometers, Thermometer, Stopwatch, A 150-micron IS Sieve or finer, A suitable stand provided with leveling screws, Spirit level, Scraper

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

ANNEX B
TO THE PRODUCT MANUAL
FOR PAPER ADHESIVES,
LIQUID GUM AND OFFICE PASTE TYPE AS PER IS 2257:1989

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 2257 : 1989.~~

The Standard Mark as given in the Schedule of the licence shall be printed on the label applied to each container and also to each package containing such containers bearing the Standard Mark provided always that the paper adhesive in each container to which this Mark is thus applied conforms to every requirement of the specification.

3.1 In addition, the following information shall be given on the label applied to each container:

- a) Name and type of the material;
- b) Manufacturer's name and trade mark if any;
- c) Date of manufacture;
- d) Mass or volume of the material in the container;
- e) Directions for storage and use, if necessary; and
- f) Identification in code or otherwise to enable the batch of manufacture to be traced back from records.

4. CONTROL UNIT – For the purpose of this scheme, the entire quantity of adhesive manufactured in each mixing shall constitute a control unit.

4.1.1 A sample of adhesive shall be taken from each control unit of manufacture after filtration and tested for description, total solids, p H value, adhesion strength and brittleness and moisture absorption. The test results shall satisfy all these requirements as laid down in the specification.

4.2 A sample from every fifth control unit of manufacture shall be tested for stability and consistency requirements. One sample shall also be tested from every tenth control unit for the requirement of keeping quality.

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~~ — ~~Not applicable.~~

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.

(Note for guidance: ~~Mode of disposal specific to product, if any shall be indicated here)~~

TABLE 1
(Levels of Control)

(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	Description	4.1	IS 2257 : 1989	R	1	One control unit	-----
4.2 & Table 1	(i) Determination of Total solids, percent by mass	A-1	IS 2257 : 1989	R	1	One control unit	-----
	(ii) pH value	A-2	IS 2257 : 1989	R	1	One control unit	-----
	(iii) Adhesive strength	A-3	IS 2257 : 1989	R	1	One control unit	-----
	(iv) Brittleness and Moisture Absorption of the dried film	A-4	IS 2257 : 1989	R	1	One control unit	-----
	(v) Stability at 37 °C	A-5	IS 2257 : 1989	R	1	Every fifth control unit	See Note 3
	(vi) Consistency at 27 ± 2 °C	31	IS 7437 : 1974	R	1	One control unit	-----
4.3	Keeping Quality	4.3	IS 2257	R	One sample for every tenth control unit in continuous series		-----

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.

Note 3: One sample from every fifth control unit is to be tested for stability and consistency. In case of failure, samples from each control unit shall be tested for all the requirement until five consecutive samples conform to all the requirements of the specification.