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उत्पाद मैनुअल
ग्लास क्लीनर तरल के लिए - विशिष्टि
IS 8540 : 2025 के अनुसार

PRODUCT MANUAL
FOR GLASS CLEANER, LIQUID – SPECIFICATION
ACCORDING TO IS 8540: 2025

विभिन्न उत्पादों के लिए भारतीय मानक ब्यूरो) अनुरूपता मूल्यांकन (विनियम, 2018 की योजना -I के तहत प्रमाणन के संचालन में एकरूपता और पारदर्शिता के लिए इस उत्पाद मैनुअल का उपयोग सभी क्षेत्रीय / शाखा कार्यालयों और लाइसेंसधारियों द्वारा संदर्भ सामग्री के रूप में किया जाएगा। दस्तावेज़ का उपयोग बीआईएस प्रमाणन प्राप्त करने के इच्छुक संभावित आवेदकों द्वारा भी किया जा सकता है।

This Product Manual shall be used as reference material by all Regional/Branch Offices & licensees to ensure uniformity 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.

1.	मानक संख्या IS No.	:	IS 8540: 2025
	शीर्षक Title	:	GLASS CLEANER, LIQUID
	संशोधनों की संख्या No. of amendments	:	Nil
2.	नमूना दिशानिर्देश Sampling Guidelines		
a)	कच्चा माल Raw material	:	Nil. : Note: This section indicates the requirements for raw material (if specified in the IS) for which compliance is to be established during Grant of Licence/Change in Scope of Licence/Factory Surveillance.
b)	समूहीकरण दिशानिर्देश Grouping Guidelines	:	Not applicable.

c)	नमूने का परिमाण Sample Quantity	:	2 x 1L, approved sample to be provided separately for the test of cleaning efficiency Note: This section indicates the quantity of the sample of the product and/or the raw material (if applicable), required to be sent to the laboratory for testing, for the purpose of Grant of Licence/Change in Scope of Licence/ Factory Surveillance (incase of market surveillance, effort may be made to procure therequired quantity of product sample, as far as possible since raw material sample may not be available in market).
d)	परीक्षण अनुरोध में घोषित किए जाने वाले पैरामीटर Parameters to be Declared in Test Request	:	Name of the product Note: This section indicates declared values to be specified against a parameter (to be specified in Test Requests) to enable testing of sample against the requirement and determine its conformity. Any other requirements/parameters may also be declared as per the standard, as applicable.
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	Please refer to Annex-A
4.	निरीक्षण और परीक्षण की स्कीम Scheme of Inspection and Testing	:	Please refer to Annex-B
5.	एक दिन में संभावित परीक्षण Possible tests in a day		
	1. Composition and Description (odour and colour) 2. Stability (excluding keeping property) 3. Corrosion or Discolouration 4. Water Content 5. Flash Point 6. Non-Volatile Matter Content 7. pH Value Note: This section is for the guidance of BIS Certification Officers/Technical Auditors of BIS Authorized Outside Surveillance Agencies(OSAs) during factory inspection to provide ready reference regarding the tests which can be witnessed during the inspection in the factory by the officer/auditor.		
6.	लाइसेंस का दायरा /Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 8540: 2025 with the following scope:		
	उत्पाद का नाम Name of the product	GLASS CLEANER, LIQUID	

BUREAU OF INDIAN STANDARDS
MANAK BHAVAN,9, BAHADUR SHAH ZAFAR MARG,
NEW DELHI-110002

ANNEX-A

LIST OF TEST EQUIPMENTS

(INDICATIVE LIST, FOR GUIDANCE ONLY)

Sr. No.	Tests used in with Clause Reference	Test Equipment
1.	Application and Performance (Cl 3.6) – Cleaning Efficiency	1. Glass surface (Panels/Plate Glass) 2. Pad/Soft cloth/Rag 3. Stopwatch/Timer 4. Approved Sample 5. Pulverised clay 6. Water and Water sprayer 7. Carbon Tetrachloride containing 10% mineral oil.
2.	Application and Performance (Cl 3.6) – Corrosion/Discolouration	1. Cleaned, grease free aluminium panel (75 x 50 x 1 mm) 2. Watch glass 3. Distilled water 4. Fan / Air drier
3.	Water content (Cl. 3.7 and Table 1)	1. Dean and Stark apparatus (A-3.1) 2. Weighing Balance 3. Dry Petroleum Hydrocarbon Solvent 4. Dry Ethyl Acetate / Amyl Acetate 5. Mixer / Glass rod / Stirrer 6. Heat source As per IS 2362 1. Methanol, 2. 2-Methoxyethanol, 3. Iodine, 4. Pyridine, 5. Sample Solvent 6. Sulphur dioxide, 7. Karl Fischer Reagent (Non pyridine based can also be used), 8. Ice-bath or in crushed solid carbondioxide 9. Sodium tartarate, Crystalline, 10. Water-Methanol Standard Solution - 10 mg/ml, 11. Water-Methanol Solution – approximately 2 g/l, 12. Aluminium Sodium Silicate/Activated Silica Gel, 13. Silicone base grease, 14. Karl Fischer Titrator as per Cl. 6 of IS 2362, Reagent bottle of brown or black-painted glass, Microburette or a pipette, Dry 500 ml one-mark volumetric flask Dry 100 ml one-mark volumetric flask Oven Desiccator Weighing balance
4.	Flash Point (Cl. 3.7 and Table 1)	1. Coolant 2. Lubricant (Optional) 3. Verification liquids [certified reference materials (CRM) and secondary working standards (SWS)] 4. Ignitor and pilot light gas (or electric ignitor) 5. Flash point apparatus 6. Thermometers 7. Timing device 8. Barometer 9. External cooling bath (optional) 10. Test cup thermal insulating cap (optional)

5.	Non-Volatile matters content (Cl. 3.7 and Table 1)	1. Weighing balance 2. Glass beaker 3. Steam bath 4. Oven
6.	pH value (Cl. 3.7 and Table 1)	pH meter with glass electrode, buffer solutions as per IS 15557, thermometer, arrangement for maintaining temperature of 27 degrees
7.	Surface Tension	As per ISO 304

ANNEX C

SCHEME OF INSPECTION AND TESTING

1. QUALITY ASSURANCE PLAN

1.1 It is expected that during operation of BIS licence, manufacturers will implement a Quality Assurance Plan (QAP) i.e. a plan of regular testing and in-process controls, designed to ensure that the product bearing the Standard Mark conforms to all requirements of the Indian Standard.

1.2 The manufacturers shall define a Quality Assurance Plan (QAP) defining the control unit (i.e. lot/batch etc.), the levels of control (i.e. the frequency and number of samples for conducting the different tests as per the Indian Standard) and declare the arrangement for testing i.e. whether in-house or subcontracting/sharing for each applicable test and submit the same to BIS Branch Office for information. The manufacturer shall comply with the QAP and maintain test records in accordance with para 2.1.

1.3 RECOMMENDED LEVELS OF CONTROL/CONTROL UNIT:

1.1.1 For the guidance of manufacturers, the recommended definition of control unit is : Entire quantity of Glass Cleaner, Liquid manufactured at a time in each homogenization tank.

1.1.2 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**.

1.2 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan. Alternatively, the manufacturer has the option of adherence to the quality plan as per levels of control recommended in column 3 of Table 1.

1.3 However, all manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard.

1.3.1 For the guidance of manufacturers in preparing the Quality Assurance Plan, recommended levels of control are given in **Table 1**. Manufacturer has the discretion of declaring their own levels of control or accept the levels of control given in this document.

1.3.2 The manufacturer shall ensure inspection and testing as per the Quality Assurance Plan submitted by them on the whole production of the factory which is covered by this plan.

2. ENSURING COMPLIANCE THROUGH TESTING- manufacturers shall ensure compliance of their products to all the requirements of the Indian Standard for which they may have in-house test facilities. However, there is no obligation to maintain in-house laboratory. Licensee may use alternative arrangements for tests of the production as per the declared QAP. Various alternatives are available for operation of BIS certification as given below and the relevant guidelines for availing such relaxations by the manufacturers, as amended from time to time, are to be referred:

- i) Shared testing resources like common facility,
- ii) Cluster based testing facility,
- iii) Sub-contracting to outside laboratories which may either be:

- a) BIS recognised/empanelled laboratories, or
- b) Any accredited laboratory as per ISO/IEC 17025

2.1 TEST RECORDS- The manufacturers shall maintain test records for the tests carried out (either in-house or at a sub-contracted or at shared test facility) to establish conformity of the product to the Standard for operation of licence. For the tests being subcontracted or conducted at a shared test facility, test results issued by the laboratories or test facilities, shall be made available for inspection by BIS.

3. PACKING AND MARKING - The Standard Mark as given in the Schedule of the licence shall be incorporated legibly and indelibly on each container of Glass Cleaner, Liquid, provided always that the material so marked conforms to each requirement of the specification.

3.1 Packing and Marking shall be done as per the Indian Standard.

3.2 **Additional Marking requirements:** Additionally, the following shall also be marked on product:

- a) “For BIS certification details please visit www.bis.gov.in”

4. REJECTION - The production which conforms to the Indian Standard and covered under the scope of this licence shall be marked with the Standard Mark. 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
(Recommended Levels Of Control By BIS- For Guidance Only)

(1)				(2)		
Test Details				Levels of Control		
Clause	Requirement	Test Methods		No. of Sample	Frequency	Remarks
		Clause	Reference IS			
4	Composition and Description	-	IS 8540	-	Each Consignment of raw material	Conformity may be established through material supplier's certificate or manufacturer's declaration
5.2	Stability	-	IS 8540	One	once in six months	
5.3, 5.3.1	Application and performance General	-	IS 8540	Firm to have adequate in- process controls to check compliance of this parameter given in the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
5.3.2	Cleaning Efficiency	A-2	IS 8540	One	once a month	
5.3.3	Corrosion or Discoloration	A-3	IS 8540	One	Each Control Unit	
5.2, 5.4 and Table-1	Requirements for Glass cleaner					
i)	Water Content	A-4	IS 8540/IS 2362	One	-do-	
ii)	Flash Point	--	IS 1448 (Part 20)	One	-do-	
iii)	Non-Volatile Matter Content	A-5	IS 8540	One	-do-	
iv)	pH Value	A-6	IS 8540/ IS 15557	One	-do-	
v)	Surface tension	-	ISO 304	One	-do-	