



**PRODUCT MANUAL FOR  
MELAMINE (2,4,6 TRIAMINO 1,3,5 TRIAZINE)  
According to IS 15623:2005**

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 15623:2005
	Title	:	Melamine (2,4,6 Triamino 1,3,5 Triazine)
	No. of amendments	:	NIL
2.	Sampling Guidelines		
a)	Raw material	:	No specific requirement for raw material
b)	Grouping Guidelines	:	NIL
c)	Sample Size	:	Approx 300 g of Melamine powder
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, Please refer Annex-C
6.	Scope of the Licence:		IS 15623:2005
	“Licence is granted to use Standard Mark as per IS 15623:2005 with the following scope:		
	Name of the product		Melamine (2,4,6 Triamino 1,3,5 Triazine)
	Type		-
	Class		-
	Grade		-
	Size		-
	Any other aspect required as per the standard		NIL

**ANNEXURE A**  
**TO PRODUCT MANUAL FOR**  
**MELAMINE (2,4,6 TRIAMINO 1,3,5 TRIAZINE)**  
**ACCORDING TO IS 15623:2005**

**List of Test Equipment**

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Major test equipment required to test as per requirements of Indian Standard.

Sr No.	Test Equipment	Tests used in with Clause Reference
1.	White paper	Description (Cl.3.1) & (Cl. 3.2), Appearance Table 1 Sl No. (i)
2.	Analytical balance, accuracy $\pm 0.0001$ g Beaker, 500 ml cap. Glass rod Sintered glass crucible G-4 Hot air oven Hot plate with magnetic stirrer Desiccator Cyanuric Acid GR Washing liquid, 0.3 g cyanuric acid/litre Distilled water	Assay (Cl. 3.2), Table 1, Sl. No. (ii)
3.	Weighing bottle with stopper Desiccator Hot air oven Analytical balance, accuracy $\pm 0.0001$ g	Loss on drying (Cl. 3.2), Table 1, Sr. No. (iii)
4.	Silica Dish, 100 ml. Cap. Spatula Pair of Tong with platinum tip Desiccator Burner Analytical balance, accuracy $\pm 0.0001$ g Muffle furnace	Ash content (Cl. 3.2), Table 1, Sl No. (iv)
5.	pH meter with electrode Beaker, 250 ml, cap. Magnetic stirrer Top pan balance accuracy $\pm 0.01$ g Stirring bar Distilled water Hydrochloric acid Sodium Hydroxide Buffer solution of pH 4.0 & 9.0	pH (Cl. 3.2), Table 1, Sl No. (v)
6.	Colorimetry tubes, 100 ml, cap Volumetric flask, 250 and 200 ml cap Burette, 50 ml cap. Spectrophotometer Potassium Hexachloroplatinate Cobalt chloride Hexahydrate	Colour, APHA (Cl. 3.2), Table 1, Sl No.( vi)

	Hydrochloric acid Formaldehyde	
7.	Conical Flask, 250 ml cap. Colorimetric tube Thermometer, 0 <sup>o</sup> C-100 <sup>o</sup> C Hot plate Hot air oven Top loading balance, accuracy $\pm 0.01$ g Measuring cylinders Volumetric flask, 1000 ml. cap. Magnetic stirrer with hot plate Pipette, 100 ml, cap. Pipette (graduated), 10 ml. cap. Magnet bar Formaldehyde Hydrazine Sulphate Hexamine	Clarity (Cl. 3.2), Table 1, SI No. (vii)

**Note:** The above list is an indicative list for the purpose of guidance only and may not be taken as exhaustive.

**ANNEXURE B**  
**TO PRODUCT MANUAL**  
**SCHEME OF INSPECTION AND TESTING**  
**FOR CERTIFICATION OF**  
**MELAMINE (2,4,6 TRIAMINO 1,3,5 TRIAZINE)**  
**ACCORDING TO IS 15623:2005**

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** -The Standard Mark as given in the Schedule of the license and Licence Number ( i.e.CM/L- ...), labelling/marketing and packing shall be done as per the provision of the Indian Standard, provided always that the product thus marked thus conforms to all the requirement of the specification. In addition, details of BIS Manakonline website shall be marked as follows: “For details of BIS certification please visit [www.manakonline.in](http://www.manakonline.in)”
4. **CONTROL UNIT** – For the purpose of this scheme, the whole production carried out in a day in a single blender shall constitute a control unit.
5. **LEVELS OF CONTROL** - The tests, as indicated in 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.
7. **REJECTION** - 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. A separate record shall be maintain in giving information relating to the rejection of the production not conforming to the requirement of the specification and the method of its disposal. Such material shall in no case be stored together with that conforming to the specification.

**MELAMINE (2,4,6 TRIAMINO 1,3,5 TRIAZINE)  
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**SCHEME OF INSPECTION AND TESTING**

**TABLE 1: LEVELS OF CONTROL**

(1)				(2)	(3)		(4)
Test Details				Test equipment requirement R:required (or) S: Sub-contracting permitted	Levels of Control		Remarks
Clause	Requirements	Test Method			No. of Samples	Frequency	
		Clause	Reference				
3.1 and 3.2	Description & Appearance	Cl 3.1 & Annex A	IS 15623:2005 Table 1, Sl No.(i)	R	One	Each Control Unit	
3.2	Assay Percent	Annex B	IS 15623:2005 Table 1 Sl No.(ii)	R	One	Each Control Unit	
3.2	Loss on drying	Annex C	IS 15623:2005 Table 1, Sl No.(iii)	R	One	Each Control Unit	
3.2	Ash Content	Annex D	IS 15623:2005 Table 1, Sl No.(iv)	R	One	Once a month	
3.2	pH	Annex E	IS 15623:2005 Table 1, Sl No.(v)	R	One	Each Control Unit	

3.2	Colour	Annex F	IS 15623:2005 Table 1, Sl No.(vi)	R	One	Each Control Unit	
3.2	Clarity	Annex G	IS 15623:2005 Table 1, Sl No.(vii)	R	One	Each Control Unit	

Note-1: 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 B.O. Head.

**ANNEXURE C**  
**TO PRODUCT MANUAL FOR**  
**MELAMINE (2,4,6 TRIAMINO 1,3,5 TRIAZINE)**  
**ACCORDING TO IS 15623:2005**

**POSSIBLE TESTS IN A DAY**

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Sr No.	TEST	CLAUSE
1.	Description & Appearance	(Cl.3.1) & (Cl. 3.2), Table 1 SI No. (i)
2.	Assay	(Cl. 3.2), Table 1 SI No (ii)
3.	Loss on drying	(Cl. 3.2), Table 1, Sr. No. (iii)
4.	Ash content	(Cl. 3.2), Table 1, SI No. (iv)
5.	pH	(Cl. 3.2), Table 1, SI No. (v)
6.	Colour, APHA	(Cl. 3.2), Table 1, SI No.( vi)
7.	Clarity	(Cl. 3.2), Table 1, SI No. (vii)

**Note:** This is an indicative list of the possible tests that can be carried out in a single day during the inspection.