



**PRODUCT MANUAL
FOR BLANK GRANULES ACCORDING TO IS 9666 : 1980**

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 9666 : 1980
	Title	:	Specification for Blank Granules
	No. of Amendments	:	01
2.	Sampling Guidelines:		
a)	Raw material	:	No specific requirements
b)	Grouping guidelines	:	NA
c)	Sample Size	:	2 kg
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:		
	i. Description ii. Moisture content iii. Bulk density iv. Material passing through: <ul style="list-style-type: none"> • 2.0 mm IS Sieve; • 250 micron IS Sieve; and • 75 micron IS Sieve. v. Acidity vi. Liquid holding capacity		
6.	Scope of the Licence:		
	“Licence is granted to use Standard Mark as per IS 9666 : 1980 with the following scope:		
	Name of the product	:	Blank Granules

ANNEX A

TO PRODUCT MANUAL
FOR BLANK GRANULES ACCORDING TO IS 9666 : 1980

LIST OF TEST EQUIPMENT

Major test equipment required to test as per the Indian Standard

Sl. No.	Tests used in with Clause Reference of IS 9666 and referred Method of Test	Test Equipment/Apparatus and Chemicals/Reagents
1	Moisture Content Clause 3.2 & Sl. No. (i) of Table 1 of IS 9666 (Clause 4.2 of IS 6940)	Chromic acid cleaning solution, n-Heptane – boiling point around 98°C or Petroleum naphtha – with a boiling range of 90 to 210°C or toluene – boiling point around 110°C, Anhydrous Calcium Chloride, Distillation Flask – made of hard glass with 500 ml capacity and provided with a ground-glass socket, Reflux condenser – made of glass, water cooled, having the outside diameter of the inner tube 16 to 17 mm, and that of the jacket 23 to 25 mm (see clause 4.2.1.2 of IS 6940 for description), Receiver made of hard glass (see clause 4.2.1.3 of IS 6940 for description), Oil-bath or Electric heater provided with a sliding rheostat or other means of heat control, Copper Wire, Pumice Stone, Guard Tube, Asbestos fibre, Analytical balance, Cotton/glass wool.
2	Bulk Density Clause 3.2 & Sl. No. (ii) of Table 1 of IS 9666 (Clause 12.2.2.1 of IS 6940)	Graduated Cylinder of 100 ml capacity and Internal diameter of 27 to 29 mm with stopper, Funnel- wide and short stemmed, Analytical balance, Felt pad.
3	Material percent by mass, passing through <ul style="list-style-type: none"> • 2.0 mm IS Sieve • 250 micron IS Sieve • 75 micron IS Sieve Clause 3.2 & Sl. No. (iii) of Table 1 of IS 9666 (Clause 12.1.2 of IS 6940)	Weighing Balance, Specified IS sieve.
4	Acidity (as H ₂ SO ₄) Clause 3.2 & Sl. No. (iv) of Table 1 of IS 9666 (Clause 11.3.2.2 of IS 6940)	Methyl red indicator solution - aqueous one percent (m/v) or Bromocresol purple indicator solution - one percent (m/v) in ethyl alcohol, Standard sodium hydroxide solution - 0.05N, Standard Hydrochloric

		Acid - 0.05N, Acetone, distilled Water, Analytical Balance (LC 0.1g), Heating mental/Hot plate, Filter Paper, Titration Funnel with stand, Conical Flask.
5	Liquid Holding Capacity (LHC) Clause 3.2 & Sl. No. (v) of Table 1 of IS 9666 (Appendix A of IS 9666)	Either (heavy aromatic Naphtha + Cyclohexanone) or (Monochlorobenzene + Xylene), Burette, Analytical Balance, Hydrometer, 250 ml bottle

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

ANNEX B

SCHEME OF INSPECTION AND TESTING FOR PRODUCT MANUAL FOR BLANK GRANULES ACCORDING TO IS 9666 : 1980

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 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 printed/stencilled on each container of Blank Granules, or printed on the labels applied to the container, as the case may be, provided always that the product so marked conform to every requirement of the specification.

3.1 Packing and marking shall be done as per the provision of Indian Standard. In addition, the following details shall be mentioned on each container/package: -

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 entire quantity of the material of the same type produced in one day (24 hours) of production 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.

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
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 Cl. Ref.	Test Method IS		No. of Sample	Frequency	Remarks
3.1 & 3.1.1	Description	3.1 & 3.1.1	IS 9666	R	One	Each control unit	
3.2 & Table 1	Moisture Content	4.2	IS 6940	R	-do-	-do-	
-do-	Bulk Density	12.2.2.1	-do-	R	-do-	-do-	
-do-	Material present by mass, passing through • 2.0 mm IS Sieve • 250 micron IS Sieve • 75 micron IS Sieve	12.1.2	-do-	R	-do-	-do-	
-do-	Acidity (as H ₂ SO ₄)	11.3.2.2	IS 6940	R	-do-	-do-	
-do-	Liquid Holding Capacity (LHC)	Appendix A	IS 9666	R	-do-	-do-	

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 empaneled 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.