



उत्पाद मानुयल
रिक्त कणिकाएं — विशिष्टि
IS 9666: 2023 के अनुसार

PRODUCT MANUAL FOR
BLANK GRANULES ACCORDING TO IS 9666: 2023

भारतीय मानक ब्यूरो 2018 विनियम (अनुरूपता मूल्यांकन)की स्कीम-I के तहत यह उत्पाद मानुयल प्रमाणीकरणके प्रचलन मे रीति और पारदर्शिता के सुसंगता सुनिश्चित करने के लिए सभी क्षेत्रीयशाखा / कार्यालयों एवं लाइसेन्स धारियों द्वारा संदर्भ सामग्री के रूप मे उपयोग कियाजाएगा। बीआईएस लाइसेन्सप्रमाण 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 9666: 2023
	शीर्षक Title	:	Blank Granules - Specification
	संशोधन संख्या No. of Amendments	:	Nil
2.	नमूनाकरण दिशा निर्देश Sampling Guidelines:		
a)	कच्चा माल Raw material	:	No specific requirements
b)	समूहिकरण दिशा निर्देश Grouping guidelines	:	कृपया Annex-ए देखें Please see Annex – A
c)	नमूने का परिमाण Sample Size	:	2 kg
3.	परीक्षण उपकरणों की सूची List of Test Equipment	:	कृपया Annex-B देखें Please see Annex – B

4.	निरीक्षण व परीक्षण स्कीम Scheme of Inspection and Testing	:	कृपया Annex-C देखें Please see Annex – C
5.	एक दिन में संभावित परीक्षण Possible tests in a day:		
	i. Description ii. Moisture content iii. Bulk density iv. Material passing through: • 4.0 mm IS Sieve; • 250 micron IS Sieve; and • 75 micron IS Sieve. v. Acidity vi. Liquid holding capacity		
6.	लाइसेन्स का कार्यक्षेत्र / Scope of the Licence:		
	IS 9666:2023 के अनुसार मानक मुहर का उपयोग करने के लिए लाइसेन्स निम्नलिखित कार्यक्षेत्र के लिए प्रदान किया जाता है Licence is granted to use Standard Mark as per IS 9666:2023 with the following scope:		
	उत्पाद का नाम Name of the product		Blank Granules
	Type		(i) Sand; and/or (ii) Gypsum; and/or (iii) Natural calcium carbonate; and/or (iv) Bentonite; and/or (v) China clay

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ANNEX A
TO THE PRODUCT MANUAL FOR
BLANK GRANULES ACCORDING TO IS 9666: 2023
GROUPING GUIDELINES

1. Blank Granules have been classified into following 5 types, based on the material from which these are fabricated/manufactured (clause 3):

Sl. No.	Types
i.	Sand
ii.	Gypsum
iii.	Natural calcium carbonate
iv.	Bentonite
v.	China clay

2. The manufacturer shall declare the type of Blank Granules which they intend to cover in the scope of licence. The sample of each type to be drawn and shall be subjected to testing for considering grant of licence /inclusion of that type.
3. It shall be ensured that the firm is having all the necessary manufacturing and testing facilities for the types to be included in the licence.
4. During the operation of licence, BO shall ensure that all the types of Blank Granules covered in the scope of license are drawn for independent testing on rotation basis over a period of time.

ANNEX B
TO PRODUCT MANUAL FOR
BLANK GRANULES ACCORDING TO IS 9666: 2023
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/Apparatus and Chemicals/Reagents
1	Moisture Content Clause 4.2 & Sl. No. (i) of Table 1 of IS 9666	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 4.2 & Sl. No. (ii) of Table 1 of IS 9666	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 • 4.0 mm IS Sieve • 250 micron IS Sieve • 75 micron IS Sieve Clause 4.2 & Sl. No. (iii) of Table 1 of IS 9666	Weighing Balance, Specified IS sieve.
4	Acidity (as H ₂ SO ₄) Clause 4.2 & Sl. No. (iv) of Table 1 of IS 9666	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 4.2 & Sl. No. (v) of Table 1 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 C
TO THE PRODUCT MANUAL FOR
BLANK GRANULES ACCORDING TO IS 9666: 2023
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 and implement 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. PACKING AND MARKING – The Standard Mark, as given in the Schedule of the licence, shall be printed/stencilled on each container or bags of Blank Granules, or printed on the labels applied to the container or the bag, as the case may be, provided always that the product so marked conform to every requirement of the specification.

3.1 PACKING - The material shall be packed in suitable form of packing as per provisions of clause 5 of IS 9666:2023.

3.2 MARKING - The information as mentioned under clause 6.1 of IS 9666:2023 shall be legibly and indelibly marked on each container or bag. In addition, the following shall be incorporated on each container or bag:

- i) BIS Licence No. (CM/L.....)
- ii) For details of BIS certification details 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 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)
(Para 5 of Scheme of Inspection and Testing)

(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
4.1 & 4.1.1	Description	4.1 & 4.1.1	IS 9666	R	Firm to have adequate in-process controls to check compliance of this parameter as per the Indian Standard. However, appropriate records shall be maintained by the manufacturer for evidence of conformity		
4.2 & Table 1	Moisture Content	---	IS 6940	R	One	Each Control unit	
4.2 & Table 1	Bulk Density	---	IS 6940	R	One	Each Control unit	
4.2 & Table 1	Material present by mass, passing through • 4.0 mm IS Sieve • 250 micron IS Sieve • 75 micron IS Sieve	---	IS 6940	R	One	Each Control unit	
4.2 & Table 1	Acidity (as H ₂ SO ₄)	----	IS 6940	R	One	Each Control unit	
4.2 & Table 1	Liquid Holding Capacity (LHC)	Annex A	IS 9666	R	One	Each Control unit	

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.