



उत्पाद मैनुअल  
भा. मा. 5460: 2022 के अनुसार  
साफ्टबाल के लिए

दस्तावेज संख्या-पी एम/आई एस 5460/1/दिसंबर 2022

भारतीय मानक ब्यूरो की स्कीम-I (अनुरूपता मूल्यांकन) विनियम, 2018 के तहत यह उत्पाद मैनुअल प्रमाणीकरण के प्रचालन में रीति और पारिश्रिता की सुसंगतता सुनिश्चित करने के लिए सभी क्षेत्रीय/शाखा कार्यालयों और लाइसेंसी द्वारा संदर्भ सामग्री के रूप में उपयोग किया जाएगा। बीआईएस प्रमाणीकरण लाइसेंस/प्रमाणपत्र प्राप्त करने के इच्छुक भावी आवेदकों द्वारा भी इस दस्तावेज का उपयोग किया जा सकता है।

**PRODUCT MANUAL FOR  
SOFTBALLS  
ACCORDING to IS 5460:2022**

**Document No.-PM/IS 5460/1/ December 2022**

*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.*

भारतीय मानक ब्यूरो  
BUREAU OF INDIAN STANDARDS  
मानक भवन, ९, बहादुर शाह ज़फ़र मार्ग  
Manak Bhawan, 9, Bahadur Shah Zafar Marg  
नई दिल्ली- ११०००२  
New Delhi – 110002



## PRODUCT MANUAL FOR SOFTBALLS ACCORDING TO IS 5460: 2022

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|    |                                  |   |                                                                                                                                                                                                                                                                                                          |
|----|----------------------------------|---|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1. | Product                          | : | IS 5460: 2022                                                                                                                                                                                                                                                                                            |
|    | Title                            | : | Softballs                                                                                                                                                                                                                                                                                                |
|    | No. of Amendments                | : | Nil                                                                                                                                                                                                                                                                                                      |
| 2. | Sampling Guidelines:             |   |                                                                                                                                                                                                                                                                                                          |
| a) | Raw material                     | : | Core*- as per Cl. 4.1.1 of IS 5460: 2022<br>Cover*- as per Cl. 4.1.2 of IS 5460: 2022<br>Ink- as per Cl. 4.1.3 of IS 5460: 2022<br><br>*Material of Core and Cover shall be declared by the manufacturer and conformity to declaration shall be established by test certificate of supplier of material. |
| b) | Grouping guidelines              | : | Please refer ANNEX –A                                                                                                                                                                                                                                                                                    |
| c) | Sample Size                      | : | 1 No.                                                                                                                                                                                                                                                                                                    |
| 3. | List of Test Equipment           | : | Please refer ANNEX –B                                                                                                                                                                                                                                                                                    |
| 4. | Scheme of Inspection and Testing | : | Please refer ANNEX –C                                                                                                                                                                                                                                                                                    |
| 5. | Possible tests in a day          | : | All tests                                                                                                                                                                                                                                                                                                |
| 6. | Scope of the Licence:            | : | Licence is granted to use Standard Mark as per IS 5460:2022 with the following scope:                                                                                                                                                                                                                    |
|    | Name of product                  | : | Softballs                                                                                                                                                                                                                                                                                                |
|    | Material of core                 | : | Very Soft PU/Soft PU/ Cushioned cookwood/Compressed cookwood/ COR 47                                                                                                                                                                                                                                     |
|    | Type                             | : | Type 1/2/3                                                                                                                                                                                                                                                                                               |

**BUREAU OF INDIAN STANDARDS**  
Manak Bhawan, 9, Bahadur Shah Zafar Marg,  
New Delhi – 110002

**ANNEX A**

**Grouping Guidelines**

1. Softballs as per IS 5460: 2022 may be classified according to following criteria:

- Based on Material of core:
  - ✓ Very Soft PU
  - ✓ Soft PU
  - ✓ Cushioned cookwood
  - ✓ Compressed cookwood
  - ✓ COR 47
- Based on usage:
  - ✓ Type 1
  - ✓ Type 2
  - ✓ Type 3

2. Considering this, sample of each material of core and each type from the offered range shall be tested to cover the entire range of material of core and types .

3. The Firm shall declare the varieties of Softballs intended to be covered in the Licence. The Scope of Licence may be restricted based on the Manufacturing and testing capabilities of the Manufacturer.

4. During the operation of the Licence, BO shall ensure that all the varieties covered in the Licence are tested in rotation, to the extent possible.

**ANNEX B****List of Test Equipment**

*Major test equipment required to test as per the Indian Standard*

| S.no. | Tests used in with Clause Reference |                              | Test Equipment                  |
|-------|-------------------------------------|------------------------------|---------------------------------|
|       | Cl. No.                             | Test                         |                                 |
| 1.    | 4.2, Table 1                        | Shape, Dimensions and Weight | Vernier Caliper, Weighing scale |

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

**ANNEX C**

**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 requirements of IS 5460: 2022.

**4. CONTROL UNIT-** All Softballs of same type and same material of core and cover, manufactured from same method and under similar conditions from same consignment of raw material in a day 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**

| (1)          |                              |              |           | (2)                                                                            | (3)                                                                                                                                                                                              |                  |                                                                                                                                                                                                                                                                        |
|--------------|------------------------------|--------------|-----------|--------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Test Details |                              |              |           | Test equipment requirement<br>R: required (or)<br>S: Sub-contracting permitted | Levels of Control                                                                                                                                                                                |                  |                                                                                                                                                                                                                                                                        |
| Cl.          | Requirement                  | Test Method  |           |                                                                                | No. of Sample                                                                                                                                                                                    | Frequency        | Remarks                                                                                                                                                                                                                                                                |
|              |                              | Clause       | Reference |                                                                                |                                                                                                                                                                                                  |                  |                                                                                                                                                                                                                                                                        |
| 4.1          | Material                     | 4.1          | IS 5460   | S                                                                              | One                                                                                                                                                                                              | Each Consignment | No further testing is required if material is received with test certificate or is ISI Marked.<br><br>Material of Core and Cover shall be declared by the manufacturer and conformity to declaration shall be established by test certificate of supplier of material. |
| 4.2          | Shape, Dimensions            | 4.2, Table 1 | IS 5460   | R                                                                              | Five pieces per hour of production for each type and material                                                                                                                                    |                  | --                                                                                                                                                                                                                                                                     |
| 4.2          | Weight                       | 4.2, Table 1 | IS 5460   | R                                                                              |                                                                                                                                                                                                  |                  | --                                                                                                                                                                                                                                                                     |
| 5            | Construction and Workmanship | 5            | IS 5460   | R                                                                              | Manufacturer shall exercise adequate levels of control to ensure that entire production should conform to the Standard. Appropriate records of testing indicating conformity shall be maintained |                  |                                                                                                                                                                                                                                                                        |

Note-1: 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.