



**PRODUCT MANUAL FOR
JAIPUR FOOT
ACCORDING TO IS 17034: 2018**

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 17034: 2018
	Title	:	JAIPUR FOOT
	No. of Amendments	:	Nil
2.	Sampling Guidelines:		
a)	Raw material	:	As per Cl. 5, Cl. 6.1 to 6.8 and Table 2 of IS 17034
b)	Grouping guidelines	:	For considering GoL/CSoL of a range of sizes of Jaipur Foot, sample of lowest size and highest size shall be tested. In such cases, cyclic testing shall be carried out on the highest size only.
c)	Sample Size	:	One
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 :		
	(a) Dimensions - Cl. 4.1		
	(b) Performance Test - Cl. 6.9.2.1 to 6.9.2.4		
6.	Scope of the Licence :		
	“Licence is granted to use Standard Mark as per IS 17034: 2018 with the following scope:		
	Name of the product	JAIPUR FOOT	
	Size	04, 05, 06, 07, 08, 09, 10	

ANNEX A**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
1.	Dimensions (Cl. 4.1)	Steel Scale, Vernier callipers, Measuring tape
2.	Hardness (Cl. 6.1)	IRHD Hardness Tester
3.	Relative Density (Cl. 6.2)	Analytical Balance, Balance pan straddle, De- Ionized Water, Beaker (Or) Density Bottle.
4.	Relative Volume Loss (Cl. 6.3)	Abrasion Machine, Abrasive sheet, Balance.
5.	Shrinkage Test (Cl. 6.4)	Thermostatically controlled Oven with natural air replacement, Scale
6.	Resistance to Flex Cracking (Cl. 6.5)	De Mattia Flex tester, Moulding Die
7.	Accelerated Ageing Test (Cl. 6.6)	Air Circulated Oven with Temperature Controller
8.	Compression Set (Cl. 6.7)	Compression Set equipment with relevant spacer
9.	Tensile Strength & Elongation at Break (Cl. 6.8)	Tensile & Elongation Computerized UTM Machine
10.	Performance Test and Cyclic loading (Cl. 6.9)	Cantilever, Clamping Devices, Protector, Cyclic Loading Machine

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

ANNEX B

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 equipment.

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 17034.

4. CONTROL UNIT –All finished Jaipur Foot of same size, manufactured from same consignment of material under similar conditions 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 Standard 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 R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Methods			No. of Sample	Frequency	Remarks
		Clause	Reference				
4.1	Dimensions	4.1 & Table 1	IS 17034:2018	R	One	Each Control Unit	
5	Material						
6.1	Hardness	6.1 & Table 2	IS 17034:2018	S	One sample of each rubber type	Once in a month or whenever there is any change of material supplier whichever is earlier.	
6.2	Relative Density	6.2 & Table 2	IS 17034:2018				
6.3	Relative Volume Loss	6.3 & Table 2	IS 17034:2018				
6.4	Shrinkage Test	6.4 & Table 2	IS 17034:2018				
6.5	Resistance to Flex Cracking	6.5 & Table 2	IS 17034:2018				
6.6	Accelerated Ageing	6.6 & Table 2	IS 17034:2018				
6.7	Compression Set	6.7 & Table 2	IS 17034:2018				
6.8	Tensile Strength & Elongation at Break	6.8 & Table 2	IS 17034:2018				
6.9	Performance Test						
6.9	Load deflection test	6.9.2.1, 6.9.2.2	IS 17034:2018	R	One	Each Control Unit	
		6.9.2.3, 6.9.2.4	IS 17034:2018	R	One	Once in a month	
	Cyclic loading test	6.9.2.5	IS 17034:2018	R	One	Once in six months	

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.