



**PRODUCT MANUAL FOR  
APPARATUS USED IN 'LE-CHATELIER' TEST  
ACCORDING TO IS 5514: 1996**

*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.	<b>Product</b>	:	IS 5514: 1996
	<b>Title</b>	:	Apparatus used in 'Le-Chatelier' Test
	<b>No. of Amendments</b>	:	Nil
2.	<b>Sampling Guidelines:</b>		
a)	<b>Raw material</b>	:	---
b)	<b>Grouping guidelines</b>	:	NA
c)	<b>Sample Size</b>	:	1 apparatus with all accessories
3.	<b>List of Test Equipment</b>	:	Please refer ANNEX – A
4.	<b>Scheme of Inspection and Testing</b>	:	Please refer ANNEX – B
5.	<b>Possible tests in a day:</b>		
	i)	Dimensions (Clause 2)	
	ii)	Construction (Clause 3)	
6.	<b>Scope of the Licence:</b>		
	“Licence is granted to use Standard Mark on Apparatus used in 'Le-Chatelier' Test as per IS 5514 : 1996”		

**ANNEX A****List of Test Equipment**

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

<b>Sl. No.</b>	<b>Tests used in with Clause Reference</b>	<b>Test Equipment</b>
1.	Dimensions (Clause 2) Construction (Clause 3)	<ul style="list-style-type: none"><li>- Micrometer</li><li>- Vernier calliper</li><li>- 300 g and 75 g dead weight</li><li>- Glass plates</li></ul>

*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 requirement of IS 5514: 1996

**4. CONTROL UNIT** – All apparatus manufactured 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 R: required (or) S: Sub-contracting permitted	Levels of Control		
Cl.	Requirement	Test Method			No. of Sample	Frequency	Remarks
		Clause	Reference				
2	Construction	2.1, Fig 1 and 2	IS 5514	R	Each apparatus	-	-
3	Dimensions	3, Fig 1 and 2	IS 5514	R	Each apparatus	-	-

Note-1: Levels of control given in column 3 are obligatory in nature to which the licensee shall comply with.