

## केन्द्रीय मुहर विभाग – III

हमारा संदर्भ- केन्द्रीय मुहर विभाग-3/16: IS 7079

दिनांक :04 06 2019

विषय: अनुपालन हेतु एस आई टी

सभी शाखा कार्यालय से आग्रह है कि एस आई टी का अनुपालन तत्काल प्रभाव से सुनिश्चित करें।

(अमित कुमार)  
वैज्ञानिक 'सी' (सी एम डी-III)

प्रमुख (सी एम डी-III)

सभी क्षेत्रीय/शाखा कार्यालय  
आई टी एस विभाग — बीआईएस इंटरनेट पर अपलोड करने हेतू

## CENTRAL MARKS DEPARTMENT-III

Our Ref: **CMD-3/16: IS 7079**

**Date: 04 06 2019**

**Subject: SIT for IS 7079:2008 – Automotive Vehicles – Brake Hose Assemblies for Hydraulic Braking Systems Used with Non-petroleum Base Brake Fluid.**

This has reference to the subject mentioned above.

BOs may kindly ensure implementation of the SIT with immediate effect.

Amit Kumar  
Sc. C (CMD III)

Head (CMD - III)

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**SCHEME OF INSPECTION AND TESTING  
FOR CERTIFICATION OF  
AUTOMOTIVE VEHICLES – BRAKE HOSE ASSEMBLIES FOR HYDRAULIC  
BRAKING SYSTEMS USED WITH NON-PETROLEUM BASE BRAKE FLUID  
ACCORDING TO IS 7079:2008**

**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 7079 : 2008.

**4. CONTROL UNIT** – All brake hose assemblies of the same type, size and diameter, having the same number of plies, produced under essentially similar conditions of manufacture (such as those from single batch of raw material or from components obtained from a single source or from a single production method or undergoing a single curing process 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 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 .....

Table 1

(1)				(2)	(3)		
Test Details				Test equipment requirement	Levels of Control		
Clause	Requirement	Test Methods		R: required (or) S: Sub-contracting permitted	No. of Sample	Frequency	Remarks
		Clause	Reference				
<b>4.1</b>	<b>MATERIAL</b>						
4.1.1	Lining	4.1.1	IS 7079	S	Conformity to relevant requirements may be established for each roll.		
4.1.2	Reinforcement	4.1.2	IS 7079	S			
4.1.3	Cover	4.1.3	IS 7079	S			
4.1.4	Metal parts	4.1.4	IS 7079	S	Conformity to relevant requirements may be established for each consignment.		
<b>4.2</b>	<b>CONSTRUCTION</b>						
4.2.1	Lining	4.2.1	IS 7079	S	Conformity to relevant requirements may be established for each roll.		
4.2.2	Reinforcement and reinforcement plies	4.2.2	IS 7079	S			
4.2.3	Cover	4.2.3	IS 7079	S			
<b>5</b>	<b>TESTS ON ASSEMBLED HOSE</b>						
5.3	Visual Examination	5.3	IS 7079	R	Each hose		
5.4	Constriction Test	5.4 , Annex A	IS 7079	R	Each hose Assembly		
5.5	Expansion Test	5.5, Annex B	IS 7079	R	One	Each control unit	

5.6	Pressure Test	5.6	IS 7079	R	Each hose Assembly		
5.7	Bursting Strength Test	5.7, Annex C	IS 7079	R	One	Each control unit	
5.8	Whip Test	5.8, Annex D	IS 7079	R	One	Fifth control unit	#
5.9	Tensile Test	5.9	IS 7079	R	One	Each control unit	
5.10	Water Absorption Test	5.10	IS 7079	R	One	Tenth control unit	#
5.11	Salt Spray test	5.11, Annex E	IS 7079	R	One	Fifth control unit	#
5.12	Cold Bend Test	5.12	IS 7079	R	One	Tenth control unit	#
5.13	Static Ozone Resistance Test	5.13	IS 7079	S	One	Once in six month or whenever there is any change in material, whichever is earlier	
5.14	Dynamic Ozone Resistance Test	5.14, Annex F	IS 7079	S	One		
5.15	Hot Impulse Strength Test	5.15, Annex G	IS 7079	R	One	Tenth control unit	#
5.16	Brake Fluid Compatibility	5.16, Annex H	IS 7079	R	One	Tenth control unit	#

# In case of any failure, frequency shall be changed to alternate control unit and original frequency restored only if five consecutive units tested are found passing.

**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.