

Central Institute of Road Transport

(A unit of the Association of State Road Transport Undertakings) Post Box No. 1897, Near Nashik Phata, Bhosari, Pune - 411 026. India Tel.: (0091-020) 67345300 (30 channels) Fax: 020 - 67345407 E-Mail: td@cirtindia.com Web: www.cirtindia.com

TEST REPORT

- This Test Report is in respect of the item / material actually tested.
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- The Institute does not take any responsibility for preserving the sample for more than 3 months from the date of issue of Test Report.
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Our Ref. No. : ED/13-14/1300373270/N2528

DIRECTOR(Technical) PLOT NO.4A, PSP BLOCK, POCKET-14 OF CIRCLOTH CIRCLOTH CIRCLOTH CIRCLOTH NEW DELHI 110 075

1. Nomenclature and Part No.

2. Customer's Nomenclature of item (if different)

3. Sample Regn. No. /Code No.

4. No. /Quantity of Sample

5. Sample Supplied by and Reference No.

6. Name of Manufacturer Marking on the sample

7. Customer's Code No./S.T.O.

8. Date of receipt of sample

9. Test Charges Receipt/ Technical Clearance Date

10. Specifications

BRAKE LINING (ASBESTOS FREE) FRONT 1510 STD TATA 2573 4213 0124

C69023/1300373270

4 NOS

DIRECTOR(TECHNICAL), ASRTU, NEW DELHI

ASRTU/TEST/DT/F(35)/T138/236/03/ATR/928/2868 Dtd. 07/10/2013

THERMO FAB INDUSTRIES

TFX FRONT TATA 1510 STD

B8477

28/11/2013

AS:307:76:JUN:2011

Assessment of Test Results CIRI CIRI CIRI CIRI

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The sample meets the requirements of tests carried out and is acceptable.

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TES	T REPORT	ANNEXURE "A" CIRT		
	GINEERING RESEARCH C			
FO:	RM NO: ERC:TP:215:FM03	CIKI		
	M :- BRAKE LINING TATA	A, (ASBESTOS FREE)	FRONT 1510 STD	
-	RT NO:- 2573 4213 0124			
SA	MPLE NO:-1300373270	SPECIFICATION NO.:	AS:307:76:JUN-2011	PAGE 1 OF 2
Sr. No	Nature of Test	Test Results		Remarks
		Specified	Actual	
1.0		Shall be free from surface lefects like cracks, scoring, ndentation, unevenness etc.	Conforms	Meets the Specification.
0.	Dimensions (mm) (Cl.4.3)			
a)	Width	Not Specified	158.33	
b)	Thickness	Not Specified		
c)	Length of Brake Lining	Not specified	187	
d)	Counter bore dia.	Not Specified	12.8	For Record Only.
e)	Rivet hole dia.	Not Specified	7.02	
f)	No. of rivet holes	Not Specified	10	
g)	Angle of curvature (Degrees)	Not Specified	52	
h)	Radius of curvature	Not Specified	192	
.0	Heat Swell test (Cl. 4.5) (At 200 ±3 °C for 40 min.)			
a)	Blistering/Swelling/Distortion Cracking.	/ Shall not show any evidence of such defects	Conforms	Meets the Specification.
b)	Heat swell (change in thickness in hot condition, mm)	0.25 (Max)	0.054	Meets the Specification.
c)	Growth (change in thickness in cold condition, mm)	Not specified	-0.007	For Record Only
.0	Friction Test (Cl.5.0)			
.1	Normal Friction Test (Cl.5.2)			
a)	Co-efficient of Friction (Max. Interface temp.150 °C)	0.32 - 0.45	0.40	Meets the Specification.
b)	Permissible co-efficient of	+30	+5	Meets the specification
	Friction variation from normal test value, (Percent)	-20	-5	Tricets the specification

TEST	T REPORT			CIRT
SAMPLE NO:-1300373270		SPECIFICATION NO.: AS:307:76:JUN-2011		PAGE 2 OF 2
Sr.	6.77	Test Results		Remarks
No.	Nature of Test	Specified	Actual	Kemarks
4.2	Heat Friction Test (Cl.5.3)	(94)		
	Permissible co-efficient of Friction variation from normal test value (Percent)	±30	-8	Meets the Specification.
4.3	Wet Friction Test (Cl.5.4)			
	Decrease in co-efficient of Friction (2 hrs. soaking in water at room temp.) (Percen	10 %(max) of normal average friction value t)	+5	Meets the Specification.
5.0	Cross Breaking Strength in Kg. per sq.cm (Cl.6.0)	300 (min)	357	Meets the Specification.
6.0	Water Swell Test (Cl.7.0) (30 minutes soaking in water at room temp.) Change in thickness (mm)	0.1 mm (max)	0.000	Meets the Specification
7.0	Acetone Exrtract, Percent (C	1.8.0) 2 % (max)	0.91	Meets the Specification
8.0	Loss on Ignition, Percent (Cl	.9.0) 50 % (max)	38	Meets the Specification
9.0	Hardness on Rockwell 'L' scale (Cl.10.0)	75 - 115	90	Meets the Specification.
10.0	Marking (Cl.11.0)			1
a)	Manufacturers identification	mark Shall be marked	'TFX' FRONT TATA 1510 STD	For record only
b)	Type No/Part No.	Al	F P. No. 257342130124	

REMARKS

Grade "A"

The sample meets the requirements of the tests carried out and is acceptable

V.D. Chavan, Scientist 'C' Scientist/Automobile Lab.1