

NON TRANSFERABLE

TEST REPORT

No. SHL/239/2009-2010/2673/4189

Date: 31.08.2009

1.0 NAME AND ADDRESS OF THE CUSTOMER : M/s. Protectron Electromech (P) Ltd.
D11-14, Brigade MM,
K.R. Road, 7th Block, Jayanagar,
Bangalore-560 070.

2.0 CUSTOMER LETTER REF. : Letter Ref. No. PEPL/ARAI/GF/140809
Dt. 14.08.2009

3.0 DESCRIPTION OF COMPONENT :

Glass Cartridge Fuse bearing Part No.: PXF 5A VU,

As informed by the customer, Electrical fuses-having 5 Amps ratings are manufactured by M/s. Protectron Electromech (P) Ltd., Bangalore.

Drawing of electrical fuse having 5 amps rating bearing Part No.: PXF 5A VU Rev. No. A is attached herewith.

4.0 TEST OBJECTIVE :

To evaluate performance of electric fuse as per the test- requirements given in AIS 026, Cl. No. 12 (c) & AIS 028 Cl. No. 4.3.3

5.0 TEST REQUIREMENTS / RESULTS:

Requirements of AIS 026, Cl. No. 12 (c) & AIS 028 Cl. No. 4.3.3 for electrical fuse are given in Table-1 on Page No. 2



Page 1 of 3

Test Report No. SHL/239/2009-2010/2673/4189

Table-1

Sr. No.	Rated current of the fuse	Current supplied to the Fuse at 12 V /24 V DC	Requirement	Observations
1	5 Amps	135% of the rated current i.e. 6.75 A	Fuse element shall fuse within 60 seconds.	<i>Fuse element fused within 60 sec when current of 6.75 A passed through the fuse.</i> i) 1 st Sample Fused in 47 sec. ii) 2 nd Sample Fused in 44 sec. iii) 3 rd Sample Fused in 43 sec.
		110% of the rated current i.e. 5.5 A	Fuse element shall not fuse within 60 min.	<i>No fusing observed when current of 5.5 A is passed through the fuse for 60 minutes.</i>

6.0 CONCLUSION:

Electric fuse (5A) bearing Part No.: PXF 5A VU, submitted & manufactured by M/s. Protectron Electromech (P) Ltd., Bangalore, **meets** the test requirements when tested as per AIS 026, Cl. No. 12 (c) & AIS 028 Cl. No. 4.3.3

PREPARED BY:

S. N. Londhe
S. N. LONDHE
TECH. ASSISTANT

CHECKED BY:

A. D. Dekate
A. D. DEKATE
PROJECT ENGINEER

APPROVED BY:

A. Akbar Badusha
A. AKBAR BADUSHA
SR. ASSISTANT DIRECTOR

Place of Issue: PUNE

Date of Issue: 31/08/09

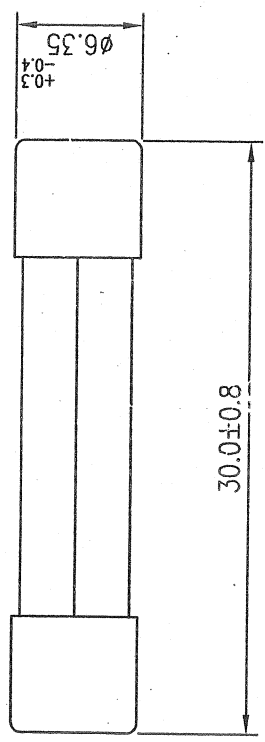
DISCLAIMER:

This test report pertains only to the components / parts / assemblies / vehicles etc. actually tested at ARAI in the presented condition based on the documents / information produced / submitted by the customer. The issuance of this test report alone does not indicate any measure of approval, certification, supervision, control of quality surveillance by ARAI of the product. No extract, abridgement or abstraction from this test report shall be published or used to advertise the product without the written consent of the Director, ARAI, who reserves the absolute right to agree or reject all or any of the details of any items of publicity for which consent may be sought. ARAI is in no way responsible for any misuse of copying of any design / type / system in connection with entire vehicle / components / parts and assemblies. Breach of any statutory provision of Indian laws or laws of other countries, will be the sole responsibility of the customer and ARAI shall not be liable for any claims or damages, made by the party, whatsoever, the customer shall alone be liable for the same, and undertakes to indemnify ARAI in this regard. Further, the ARAI has the right to initiate cancellation / withdrawal of the certificate issued, in case of any fraud, misrepresentation, when it surfaces and comes in the knowledge of ARAI. **The appropriate local courts at Pune shall have the jurisdiction in respect of any dispute, claim or liability arising out of this report.**

L:\S&HS & H data\Testreports09-10\Main-OCs\239-CNG-LPG\2673-0910 (Fuse_Protectron)1.doc



NOMINAL CURRENT RANGE (In)	VOLTAGE DROP DC (mV Max.)
5 A	200



TIME CURRENT CHARACTERISTICS	
NOMINAL CURRENT	1.35 In 1.1 In
5A	<60Sec >60min

RATED VOLTAGE : 32V

MARKINGS ON THE FUSE CAP SHOULD BE AS FOLLOWS:-
 TYPE OF FUSE (F), FUSE RATING, RATED VOLTAGE (32V),
 BREAKING CAPACITY (L) & COMPANY'S IDENTIFICATION



of PROTECTRON ELECTROMECH (P) LTD.
 Authorised Signatory (P) LTD.
 PROTECTRON ELECTROMECH (P) LTD.
 No. D111B12 1st Floor,
 Brigade M.M. New K.R. Road,
 Bangalore-560 070 Ph: 26769999

REV. ZONE	DESCRIPTION	CHECKED BY	DATE	DOCUMENT CODE : 4D PXF 02	ALL DIMENSIONS ARE IN MM. IF UNLESS OTHERWISE SPECIFIED.
A	ORIGINAL	<i>[Signature]</i>	03.10.2001	MATERIAL & FINISH CAP. BRASS, Ni PLATED	Gen. Tol. ±0.1mm ±0.2
				HEAT TREATMENT	Surface Finish Ra√ Scale: 2.5 : 1
				DRAWN BY : PANKAJ	Sht. Size: A4
				DATE : 08.10.2001	APP'D BY: <i>[Signature]</i> DATE
					PROTECTRON ELECTROMECH (P) LTD. Bangalore, INDIA.
					This Document is the property of PROTECTRON ELECTROMECH (P) LTD. it shall not be reproduced or communicated to a third party without prior permission.
					DWG according to STD. Sheet: 1 OF 1