

Laboratory UCAL KCAT Lab, Krishnamurthy Centre for Automotive Technology – R&D, Ucal Fuel Systems Limited, 11B/2 (SP), First Cross (Ambit Park) Road, Ambattur Industrial Estate, Chennai, Tamil Nadu

Accreditation Standard ISO/IEC 17025: 2005

Certificate Number TC-5916 (in lieu of T-3534)

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Validity 31.07.2017 to 30.07.2019

Last Amended on --

Sl.	Product / Material of Test	Specific Test Performed	Test Method Specification against which tests are performed	Range of Testing / Limits of Detection
<u>ELECTRICAL TESTING</u>				
I.	ENVIRONMENTAL TEST FACILITY			
1.	Automotive Components / Assembly, Electrical and Electronic Items	Cold Test	IS 9000 (Part II) IEC 60068-2-1	Qualitative (-) 60 °C to Ambient
		Dry Heat Test	IS 9000 (Part III) IEC 60068-2-2 ISO 16750-4	Qualitative Ambient to 170 °C
		Damp Heat Test	IS 9000 (Part IV) IEC 60068-2-67 IEC 60068-2-78 ISO 16750-4	Qualitative 40 % to 95 % RH for 25 °C to 85 °C
		Change of Temperature (Temperature Cycling)	IS 9000(Part 14/Section 2) IEC60068-2-14 ISO 16750-4	Qualitative (-) 60 °C to 170 °C
		Temperature Shock/ Rapid change of Temperature with Prescribed time of Transfer	IS 9000 (Part 14) IEC 60068-2-14 ISO 16750-4	Qualitative (-) 40 °C to 150 °C Transit time : <10 seconds
		Sine Vibration	JIS D 1601 IEC 60068-2-6 IS 9000 (Part 8)	5 Hz to 3000 Hz, Force 1500 kgf, Velocity 1200 mm/s Z- axis 20 g
		Combined Temperature and Sine Vibration	ISO 16750-3	5 Hz to 3000 Hz, Force 1000 kgf, Velocity 1600 mm/s Z- axis 20 g, (-) 40 °C to 150 °C