National Accreditation Board for Testing and Calibration Laboratories

SCOPE OF ACCREDITATION

Laboratory Name :	AUTO CLUSTER DEVELOPMENT & RESEARCH INSTITUTE, PLOT NO. C-181, H-BLOCK, M.I.D.C, CHINCHWAD, PUNE, MAHARASHTRA, INDIA		
Accreditation Standard	ISO/IEC 17025:2017		
Certificate Number	TC-8628	**Page No**	1 of 4
Validity	23/08/2022 to 22/08/2024	**Last Amended on**	14/10/2022

S.No	Discipline / Group	Materials or Products tested	Component, parameter or characteristic tested / Specific Test Performed / Tests or type of tests performed	Test Method Specification against which tests are performed and / or the techniques / equipment used
Permanent Facility				
1	CHEMICAL- CORROSION TESTS	Plated, Painted, Powder Coated, Automotive, Rubber and Plastic Components	Salt spray test	ISO 9227
2	CHEMICAL- CORROSION TESTS	Plated, Painted, Powder Coated, Automotive, Rubber and Plastic Components	Salt Spray Test/ Corrosion Resistance	ASTM B 117
3	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Cold and Dry heat Test (Chamber size 1m x 1m x 1m)	IEC 60068-3-1, 2.0 Edition 2011-08
4	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Cold test (Chamber size 1m x 1m x 1m)	IS 9000 (Part 2) Sec. 1-4
5	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Cold test (Chamber size 1m x 1m x 1m)	IEC 60068-2-1, 6th Edition 2007-03
6	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Composite Temperature / Humidity Cyclic Test (chamber size 1m x 1m x 1m)	IEC 60068-2-38, 3.0 Edition 2021-03
7	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Composite Temperature and Humidity test (chamber size 1m x 1m x 1m)	IS 9000 Part 6
8	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Damp heat Steady State (Chamber size 1m x 1m x 1m)	IS 9000 Part 4
9	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Damp heat, Cyclic (Chamber size 1m x 1m x 1m)	IS 9000 Part 5 Sec. 1- 2
10	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Damp heat, cyclic 3rd Edition (Chamber size 1m x 1m x 1m)	IEC 60068-2-30, 3rd Edition 2005-08
11	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Damp heat, Steady state 2.0 Edition (Chamber size 1m x 1m x 1m)	IEC 60068-2-78, 2.0 Edition 2012-10
12	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Dry Heat as per Part 3 Section 1 to 5	IS 9000 Part 3
13	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Dry heat test 5.0 Edition (Chamber size 450mm x 450mm x 450mm)	IEC 60068-2-2, 5.0 Edition 2007-07
14	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Dust Spray test (1m x 1m x 1m)	IS 9000 Part 12

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15	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Rain Spray Test/ Water Spray Test (1m x 1m x 1m)	IS 9000 Part 16
16	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Thermal Shock Test/ Change of temperature (0.75m x 0.75m x 0.75m)	IS 9000 Part 14 Sec. 1-3
17	ELECTRICAL-ENVIRONMENTAL TEST FACILITY	Automotive Components	Thermal shock/ Change of Temperature (0.75m x 0.75m x 0.75m)	IEC 60068-2-14, 6.0 Edition 2009-01
18	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Flexural Modulus	Flexural Modulus	ASTM D 790
19	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Flexural Strength	Flexural Strength	ASTM D790
20	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Izod Impact Test	Izod Impact Test	ASTM D 256
21	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic	Melting Point by DSC	ASTM E794
22	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Product	Elongation at break %	ASTM D638
23	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic product	Filler/ Ash Content	ASTM E 1131
24	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Product	Fitting Pull out	SAE J - 2045
25	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic product	Melt Flow Index	ASTM D 1238 (Procedure A)
26	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Product	Polymer Identification by FTIR	ASTM E1252
27	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Product	Volatile Content	ASTM E1131
28	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Products	Density	ASTM D 792
29	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic products	Hardness - Shore D	ISO 868 3rd Edition, 2003-03-01
30	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic Products.	Tensile strength	ASTM D638
31	MECHANICAL- PLASTICS AND PLASTIC PRODUCTS	Plastic productt	Polymer Content	ASTM E 1131
32	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Natural and Synthetic Rubber	Change in volume	ASTM D 471

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33	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Ash content by TGA	ASTM D6370
34	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber products	Density	ASTM D297
35	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Change in Elongation After Oil ageing	ASTM D 471
36	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Change in Hardness after Oil Ageing	ASTM D471
37	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Change in Hardness Shore A	ASTM D573
38	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Change in tensile strength	ASTM D573
39	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Change in Tensile Strength After Oil Ageing	ASTM D471
40	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Compression Set	ASTM D395 (method B)
41	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Elongation at break (%)	ASTM D412
42	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Polymer Content	ASTM D 6370
43	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Tear Strength	ASTM D624
44	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Product	Volatile Content	ASTM D6370
45	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Hardness IRHD	ISO 48
46	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Products	Tensile strength	ASTM D412
47	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizate	Carbon black content by TGA	ASTM D6370
48	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizate	Change in elongation	ASTM D573
49	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizate	Change in Volume After Oil ageing	ASTM D471
50	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizate	Hardness - Shore A	ISO 868
51	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Rubber Vulcanizate	Polymer Identification by FTIR	ASTM D3677

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52	MECHANICAL- RUBBER AND RUBBER PRODUCTS	Synthetic Rubber	Ozone Resistance test	ASTM D1149