

From MS/ENB3	Our reference Prijo Ulahannan	Phone +91 80 6783 6100	E-Mail Prijo.ulahannan@in.bosch.com	Date: 18-Aug Report No.: Ather_01_TR		
Report: Title: Customer:	Ather India	esistance to rusting				
Document approv	'al					
	Name		Signature	Signature		
Prepared by	Prijo Ulahannan					
Reviewed by	Mahantesh Ramanna	var				
patented. A and the cha 3 samples to a some connector i check the f	Ather has approached arging station according to the solutions as specific corrosive environmental to the sar	Bosch (BGSW) to vang to IS 17017 select and Vehicle inlet were ecified in standard for ent. Test and accepta	charging connector for electrical alidate the charging connector alidate the charging connector rive tests as prescribed by Ather used for test. The task was to a specified duration to check ance criteria are as per IS 170	between the per requirement to expose the the behavior	vehicle nts. samples of	
2. Results, sl	hort version			a la	mat a la	
24 '	lianal inconcation of all as	ia manta fan anaalea i l	mankama (Nama ana ditian)	o.k. ⊠	not o.k.	
	2.1 Visual inspection of plastic parts for cracks and breakage (New condition)					
2.2 \	/isual inspection of samp	oles for rust after test			Ш	
The overall	result of the examin	ned samples is:				
□ Positive □ Negative	e re: No further analys	is required				

Recommendation for further work: NA



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3. Conclusions and consequences

All 3 connector samples have passed the test. All the test parameters are within the specified limit of assessment criteria.

4. Results, long version

- Plastic parts and terminals inspected before test for abnormalities like cracks, burrs, rust and breakage. All the samples subjected to test were in good/acceptable condition → **OK**

After the test Surfaces has no signs of rust – OK (See chapter 5.4 for Criteria)

5. Details

5.1 Part details:

SI. No.	Description	Part number	Manufacture date / Received date	Remarks
1	Vehicle Inlet	340A0013634	July-2022	-
2	Vehicle connector	340A0021042	July-2022	-

5.2 Equipment details:

SI. No.	Test equipment	Equipment no.	Remarks
1	Saltwater setup	ATS-032	Location: External lab (NABL - TC-7419)

5.3 Sample preparation, test setup and test details:

- 1. Visual inspection of plastic parts conducted on all the samples before test.
- 2. 3 samples of vehicle connector and vehicle inlet equipped with terminals are used for test.
- 3. All grease is removed from the parts to be tested, by immersion in ethyl acetone, acetone, methylethyl ketone or an equivalent degreasing agent for 10 min.
- 4. Then the parts are then immersed for 10 min in a 10 percent solution of ammonium chloride in water at a temperature of 20°C ± 5 K.
- 5. After that without drying, but after shaking off any drops, the parts are placed for 10 min in a box containing air saturated with moisture at a temperature of 20°C ± 5 K.
- 6. After the parts have been dried for 10 min in a heating cabinet at a temperature of 100°C ± 5 K,
- 7. Same procedure was followed for all the other samples.
- 8. See pictures in chapter 6 Enclosure.



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5.4 Test conditions and assessment criteria:

30 CORROSION AND RESISTANCE TO RUSTING

Ferrous parts, including enclosures, shall be adequately protected against rusting.

For specific conditions and the provisions for these conditions, special consideration should be given to the product by the manufacturer with regard to resistance to corrosion.

Compliance is checked by the following test.

All grease is removed from the parts to be tested, by immersion in ethyl acetone, acetone, methylethyl ketone or an equivalent degreasing agent for 10 min. The parts are then immersed for 10 min in a 10 percent solution of ammonium chloride in water at a temperature of $20^{\circ}\text{C} \pm 5~\text{K}$.

Without drying, but after shaking off any drops, the parts are placed for 10 min in a box containing air saturated with moisture at a temperature of $20^{\circ}\text{C} \pm 5 \text{ K}$.

After the parts have been dried for 10 min in a heating cabinet at a temperature of $100^{\circ}\text{C} \pm 5 \text{ K}$, their surfaces shall show no signs of rust.

Traces of rust on sharp edges and any yellowish film removable by rubbing are ignored.

For small helical springs and the like, and for inaccessible parts exposed to abrasion, a layer of grease may provide sufficient protection against rusting. Such parts are subjected to the test only if there is doubt about the effectiveness of the grease film and the test is then made without previous removal of the grease.

Asessemnt Criteria:

After the test Surfaces has no signs of rust



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6. Enclosure

6.1 CORROSION AND RESISTANCE TO RUSTING

