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TEST REPORT | Your order from 14.04.2022

Order No. 5D22023-5

Received: 14.04.2022

Sample(s) taken by: Customer

Date of Testing: 19.04. - 04.10.2022

Sample(s) suitable for Testing

Sample Description

- > 1 variation of steel samples, with "ARZINCAL4000 Zn-Al alloy coating with minimum 350g/m²" upon, with the following designations:
 - > Set of samples 3 [fem-no: 3000er]: 5x coated wires with edge clips, dimensions: 200mm

Remark: The designations of the samples have only been communicated after sending the first results!

Description of Inquiry

- > 4000h neutral salt spray test according to DIN EN ISO 9227-NSS:2017-07
- > Visual evaluation on changes in the surface
 - Interim evaluations after 1000h, 1500h, 2000h and 3000h NSS test (under wet conditions!)

The samples will be tested in the delivered conditions!

Description of the performed Test Procedure

- > The neutral salt spray test was carried out according to DIN EN ISO 9227-NSS:2017-07 in the device of the Co. Erichsen, Modell 606
 - Test duration: 4000h
 - Test space volume: 400l

Test Report

- > The results of the neutral salt spray test are to be found in the following table.

Sample code		Visual evaluation after		
Customer designation	fem-N°	1000h	1500h	2000h
coated wires with edge clips	3001 - 3005	The tested samples show voluminous zinc corrosion (white rust = WR). There is no base metal corrosion (red rust = RR) visible.	The tested samples show voluminous WR. There is no RR visible. Under wet conditions there are no changes visible compared to the state after 1000h NSS test.	The tested samples show voluminous WR. There is no RR visible. Under wet conditions there are no changes visible compared to the state after 1500h NSS test.
Sample code		Visual evaluation after		
Customer designation	fem-N°	3000h	4000h	
coated wires with edge clips	3001 - 3005	The tested samples show voluminous WR. There is no RR visible. Under wet conditions there are no changes visible compared to the state after 2000h NSS test.	The tested samples show voluminous WR. On 2 of 5 samples [fem-no: 3004-3005] there is RR visible on the surface.	

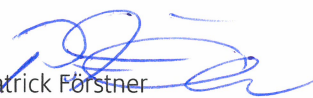
Note: The area around the "fem"-label, as well as the cut edges weren't taken into consideration.

With kind regards,

fem Forschungsinstitut Edelmetalle + Metallchemie



Prof. Dr. Holger Kaßner
Director



Patrick Förstner
Person in charge

Parts of this test reports must not be duplicated without agreement of fem. The test results exclusively deal with the investigated samples. Sample residues will be returned. All tests are conducted with accredited testing procedures, except for those tests which are marked by *. For statements of conformity without default decision criteria given by standards/specifications or the customer, the decision rule of the fem is applied (www.fem-online.de/en/content/conformity). If samples are taken by the client, reported results apply to them as received; any deviations are noted separately in the report. By principle, assessments and evaluations are not part of the accreditation. Information on data collection and storage can be found under Privacy Statement on our website.