



AIDIMA

Reference: 1511026-01
Order sheet: 21502104

REPORT ISSUED BY AIDIMA's LABORATORY

AT THE REQUEST OF:

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CONCERNING:

SAMPLE:	KES BACKRESTS
TEST:	RESISTANCE TO CORROSION

SAMPLES RECEPTION DATE:	2/11/2015
TESTING STARTING DATE:	13/11/2015
TESTING FINISHING DATE:	23/11/2015

THIS REPORT CONSISTS OF 4 CONSECUTIVELY NUMBERED PAGES.

The test samples, the subject of this report, will remain at AIDIMA for a period of three months starting from the report issue date. That period having expired, it will be destroyed. Hence, any claim must be made within this time limit.

**1. DESCRIPTION AND IDENTIFICATION OF THE SAMPLE.
INSPECTION BEFORE TESTING**

A backrests mesh and tube painted of model KES according to information given by client, of approximate dimensions 600mm x 570mm.

Sample is referenced by AIDIMA as 1511026-01.



2. ORIGIN OF THE SAMPLE

Sample supplied by the customer.

3. TESTS REQUESTED

Resistance to corrosion in salt spray chamber. According to GRADE 4 of the UNE EN 1670:2007, "Building hardware. Corrosion resistance. Requirements and test methods".

4. STANDARD TEST METHOD

The test method is carried out according to standard¹ UNE EN ISO 9227:2007: "Corrosion test in artificial atmospheres. Salt spray tests."

5. DESCRIPTION OF THE TEST METHOD

RESISTANCE TO CORROSION

Sample is inspected carefully and placed into a salt fog chamber that sprays on the test samples, a solution of sodium chloride 50g NaCl / l of solution at a pH of (6.5 ± 0.5).

The temperature inside the salt spray chamber is kept at (35±2)°C, and the flow rate is such that they are collected between 1ml/h to 2 ml/h using a 10 cm diameter collector.

After the exposure period, sample is rinsed in running water to remove the waste generated in the test. It is dried in a stream of air, and the tested sample is examined carefully and is assessed.

¹ The assessment criteria applied follow the standard EN 1670:2007.

The assessment criteria applied in the standard UNE EN 1670:2007, say:

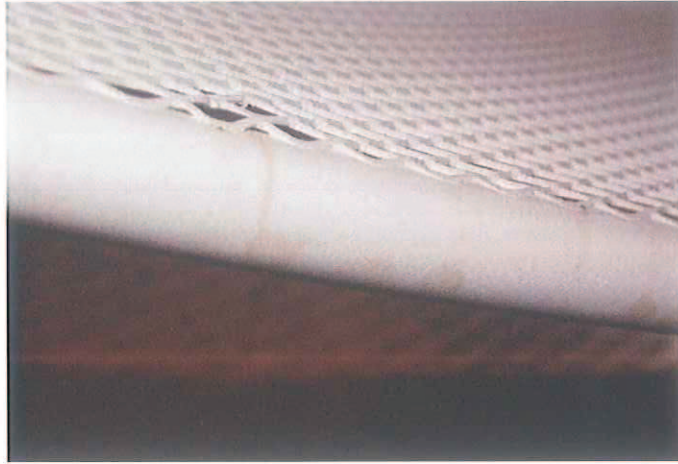
- Metallic coatings: no base metal corrosion, visible with normal eyesight or eyesight corrected, except a point in a significant surface of 650 mm² and without any point of dimension greater than 1.5 mm in all directions
- Organic coatings: the degree of blistering shall not exceed the density 2 and dimensions of any blister should not exceed the size 3 according to EN ISO 4628-2

Following table shows the grade classification:

Grade	Application. Terms of Service	Exposure time (hours)
0	No defined corrosion resistance.	---
1	Low corrosion resistance. Usually dry and warm indoor environment	24
2	Moderate corrosion resistance. Indoor environment where condensation may occur.	48
3	High resistance to corrosion. Outside environment where there may be rain or dew moisture	96
4	High corrosion resistance. External environment in severe conditions.	240
5	Exceptionally high corrosion resistance. External environment in exceptionally severe conditions where product protection is required in the long term.	480

6. TEST RESULTS

TEST	ASSESSMENT (240 hours)
Resistance to corrosion	No corrosion of the base metal except for some points in the weld zones of meshing with the tube structure (see picture). No blisters occur.
ACCORDING TO UNE EN 1670:07 / Grade 4	PASS Grade 4



State of the sample after salt spray test 240 hours. Detail of the mesh welds.

The results of the tests apply only to the tested samples.

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Date: 25th November, 2015



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