

Tritech GmbH – Gasstraße 18 – 42657 Solingen

AC Antennas A/S
Mr. Claus Matthiesen
Fabriksparken 40
DK- 2600 Glostrup

Your message from
17th December 2015

Our sign
jkr

Date
3rd February 2016

With reference to: periodic salt spray test

Tritech sample number **2015-03567**
Specimen **antennas**
Specification **DIN EN 60068-2-52 (October 1996)**
Code **severity level 1**

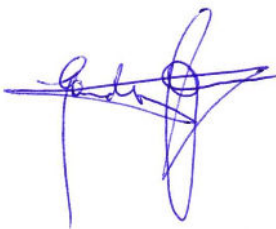
We performed the test in our lab. The results are summarized in the following test report.

The results refer to the tested sample only. Unless the samples were taken from our lab or in our authority we refuse the responsibility for the accuracy of the sample taking. This test report is valid signed only and can be forwarded completely and unmodified. Abstracts and amendments require in each case the permission of Trittech GmbH.

Accredited test laboratory according to DIN EN ISO 17025 from DAkKS Deutsche Akkreditierungsstelle GmbH. The accreditation is valid for the specified methods listed in the attachment of the certificate.

We hope that our results have been of some help.

Tritech Oberflächentechnik GmbH



Sandy John
Werkstoffprüfung / QMB



TriTech Oberflächentechnik GmbH
Gasstraße 18 - 42657 Solingen
Tel.: 0212 - 22 14 70
Fax: 0212 - 22 14 79
info@tritech-gmbh.de

Geschäftsführende Gesellschafterin:
Dipl.-Ing. Brigitte John

Amtsgericht Solingen HRB 16537
USt.-ID Nr.: DE196026137

Volksbank Remscheid-Solingen
BLZ 340 600 94 - Konto 621 5776
Stadtsparkasse Düsseldorf
BLZ 300 501 10 - Konto 6200 7117

Test Report

Specification DIN EN 60068-2-52 (October 1996) severity level 1
Tritech sample number 2015-03567



Relevant information for testing

Room of testing:	Corrotherm 606 (Erichsen)
Size of room of testing:	400 L
Last date of calibration:	21 st May 2015
Next date of calibration:	May 2016
Assessment of the test:	after every cycle
Interruption of test :	none
Duration of test:	four cycles of each 168 hours
Storing:	29 th December 2015 till 26 th January 2016
Reagents / tools:	deionized water sodium chlorid 99.9%, pure dried vacuum salt (ESCO)

Performance

The samples were stored at plastic bars in the test chamber. It was paid heed that the samples did not touch each other or fluid dropped from one sample to another. Before the test was started the samples were not specially pretreated or cleaned. All parameters were set and controlled before the test was started.

The following cycle was performed four times:

- two hours neutral salt spray test according to DIN EN ISO 9227 (September 2012)
NSS
- 166 hours constant humidity test according to DIN EN ISO 6270-2 (September 2005)
CH

After every cycle the samples were taken out of the test chamber and visually evaluated. Therefore the samples were not rinsed or wiped. After the fourth cycle the samples were softly cleaned with deionized water. Then the samples were stored at room climate for drying.

The finally evaluation was done at good illumination with daylight with the naked eye.

Requirement

The test is passed when the samples show no undue deterioration or corrosion of the metal parts.

Tritech Oberflächentechnik GmbH

Sandy John
Werkstoffprüfung / QMB



Test Report

Specification DIN EN 60068-2-52 (October 1996) severity level 1
Tritech sample number 2015-03567



Specific information for testing

Type of tested parts:	Antenna KUM Sample
Item number:	
Number of tested parts:	one sample (sample completely tested)
Arrival of the samples:	21 st December 2015
Substrate:	with no further details
Coating:	with no further details
Test:	periodic salt spray test

Evaluation



Sample "KUM" after four cycles salt spray test

At no time the sample shows any changes of the surface. The sample has no blisters or cracks. The surface is free of deposits of corrosion products.

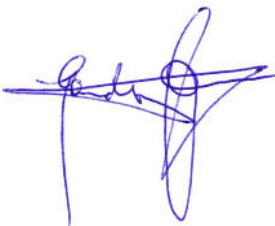
Result

The sample passed the requirement.

Tester: Julia Krüger

Date: 26th January 2016

Tritech Oberflächentechnik GmbH



Sandy John
Werkstoffprüfung / QMB

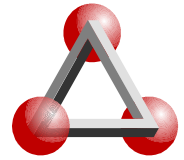


Test Report

Specification

DIN EN 60068-2-52 (October 1996) severity level 1

Tritech sample number 2015-03567



TRITECH

Specific information for testing

Type of tested parts:	Antenna CELmar0-1
Item number:	
Number of tested parts:	one sample (sample completely tested)
Arrival of the samples:	21 st December 2015
Substrate:	with no further details
Coating:	with no further details
Test:	periodic salt spray test

Evaluation



Sample "CELmar" after four cycles salt spray test

After four cycles salt spray test the surface of the sample is free of any changes. No blisters, cracks or corrosion products can be recognized at the sample.

Result

The sample passed the requirement.

Tester: Julia Krüger

Date: 26th January 2016

Tritech Oberflächentechnik GmbH

Sandy John
Werkstoffprüfung / QMB

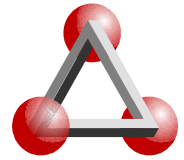


Test Report

Specification

DIN EN 60068-2-52 (October 1996) severity level 1

Tritech sample number 2015-03567



TRITECH

Specific information for testing

Type of tested parts: H7ABJD00027
Item number:
Number of tested parts: one sample (sample completely tested)
Arrival of the samples: 21st December 2015
Substrate: with no further details
Coating: with no further details
Test: periodic salt spray test

Evaluation



Sample "H7ABJD00027" after four cycles salt spray test

After three cycles salt spray test shows the sample little white stains at the thread.

The stains at the thread did not increase after the fourth cycle salt spray test. At the remaining surface no changes can be seen. The sample is completely free of blisters, cracks and corrosion products.

Result

The sample passed the requirement.

Tester: Julia Krüger

Date: 26th January 2016

Tritech Oberflächentechnik GmbH

Sandy John
Werkstoffprüfung / QMB

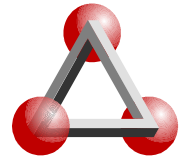


Test Report

Specification

DIN EN 60068-2-52 (October 1996) severity level 1

Tritech sample number 2015-03567



TRITECH

Specific information for testing

Type of tested parts:	CX 4 short version
Item number:	
Number of tested parts:	one sample (sample completely tested)
Arrival of the samples:	21 st December 2015
Substrate:	with no further details
Coating:	with no further details
Test:	periodic salt spray test

Evaluation



Sample "CX4" after four cycles salt spray test

The sample shows no changes after the first three cycles salt spray test.

After four cycles salt spray test beginning white deposits can be seen at the smaller thread. There are no changes of the remaining surface of the sample. The coating of the sample has no blisters or cracks.

Result

The sample passed the requirement.

Tester: Julia Krüger

Date: 26th January 2016

Tritech Oberflächentechnik GmbH

Sandy John
Werkstoffprüfung / QMB

