

Our Ref: GBW Number 19-01187-2 Issue 1 Date 08/03/2019 Page 1 of 7

A/C No: K012

Tested For:-

A KENRICK & SONS LTD
Kenrick Way
West Bromwich
West Midlands
B70 6DB

SALT SPRAY TESTING OF DOOR HARDWARE SAMPLE

INTRODUCTION

The finished sample was submitted to the laboratory for Salt Spray Corrosion Resistance Testing in accordance with the relevant specifications.

RELEVANT INFORMATION

Description: 1 off. Chrome Letterbox Assembly
Finish: Zn Die Cast Substrate

Specifications: Salt Spray Test in accordance with BS EN ISO 9227:2012 & BS EN 1670:2007

Test Duration: 480 – 1008 Hours Exposure

Submitted By: Brian Corbett & Tracey Fletcher
Customer's Order No: 8047
Sample Receipt Date: 24/01/2019

Salt Spray Test (BS EN ISO 9227:2012)

The photograph in fig 1 is showing the as- received condition of the sample prior to test, the sample was then exposed to a neutral 5% Salt Spray for a test period of 480 – 1008 hours with examinations after every 24 hours, revealed the following observations:-

Chrome Letterbox Assembly

24 Hours

The flap section and outer frame section showed no evidence of corrosion product.

REPORT
COMPILED BY



G B Withers

Corrosion Science Technician

REPORT
APPROVED BY



G B Withers

Corrosion Science Technician

TESTS MARKED "NOT UKAS ACCREDITED" IN THIS REPORT/CERTIFICATE ARE NOT INCLUDED IN THE UKAS ACCREDITATION SCHEDULE FOR OUR LABORATORY.
TESTS MARKED "SC" HAVE BEEN SUBCONTRACTED.
RESULTS IN THIS REPORT RELATE ONLY TO THE ITEMS TESTED
OPINIONS AND INTERPRETATIONS EXPRESSED HEREIN ARE OUTSIDE THE SCOPE OF UKAS ACCREDITATION.
THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT WRITTEN APPROVAL OF THE LABORATORY

96 – 192 Hours

The flap section showed isolated corrosion spots and leaching white corrosion product / staining from the channel recesses.

The outer frame section showed no evidence of white corrosion product / staining, (see photograph after 96 hours).

264 – 360 Hours

The flap section showed 6 x corrosion spots (maximum size 0.5mmØ) and leaching white corrosion product / staining from the channel recesses.

The outer frame section showed a slight amount of white corrosion product / staining from the edges, (see photographs after 264 hours).

432 – 528 Hours

The flap section showed 6 x corrosion spots and leaching white corrosion product / staining from the channel recesses less than 1.5mm.

The outer frame section showed a moderate amount of white corrosion product / staining from the edges, (see photograph after 480 hours).

600 – 696 Hours

The flap section showed 6 – 8 corrosion spots and leaching white corrosion product / staining from the channel recesses, the flap exhibited staining product from corrosion spots from the channel recesses.

The outer frame section showed a moderate amount of white corrosion product / staining from the edges.

768 - 864 Hours

The flap section showed 6 – 8 corrosion spots and leaching white corrosion product / staining from the channel recesses, the flap exhibited significant staining product from corrosion spots from the channel recesses.

The outer frame section showed a moderate / significant amount of white corrosion product / staining from the edges.

936 - 1008 Hours

The flap sample showed evidence of 10 x corrosion spots (maximum size 3.0mm Ø) and leaching white corrosion product / staining from the small channel recess and 1 x corrosion spot (4.0mm Ø) and leaching white corrosion product / staining from the large channel recess, the flap exhibited significant staining product from corrosion spots from the channel recesses.

The outer frame sample showed a significant amount of white corrosion product / staining from the end interface joint, the outer frame edges showed white corrosion product / staining from the underside of the sample, (see photographs after 1008 hours).

CONCLUSION

The finish applied to the Chrome Letterbox Assembly (Appearance) tested, **satisfied** 480 hours Salt Spray Test Requirement to British Standard Specification, BS EN.1670:2007, Grade 5.

The mechanism applied to the Chrome Letterbox Assembly (Function) tested, **satisfied** 480 hours Salt Spray Test Requirement to British Standard Specification, BS EN.1670:2007, Grade 5.

END of TEXT

FIG 1



Photograph showing the condition of the Chrome Letterbox Assembly prior to Salt Spray Test

FIG 2



Photograph showing the condition of the Chrome Letterbox Assembly after 96 hours Salt Spray Test

FIG 3



Photograph showing the condition of the Chrome Letterbox Assembly after 264 hours Salt Spray Test

FIG 4



Photograph showing the condition of the Chrome Letterbox Assembly after 264 hours Salt Spray Test

FIG 5



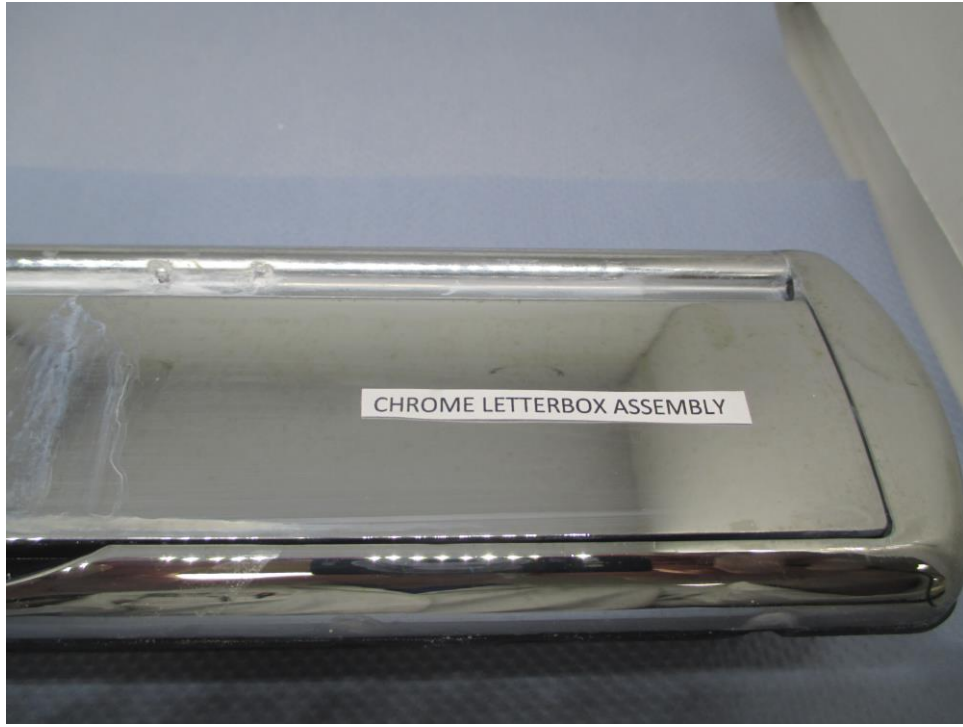
Photograph showing the condition of the Chrome Letterbox Assembly after 480 hours Salt Spray Test

FIG 6



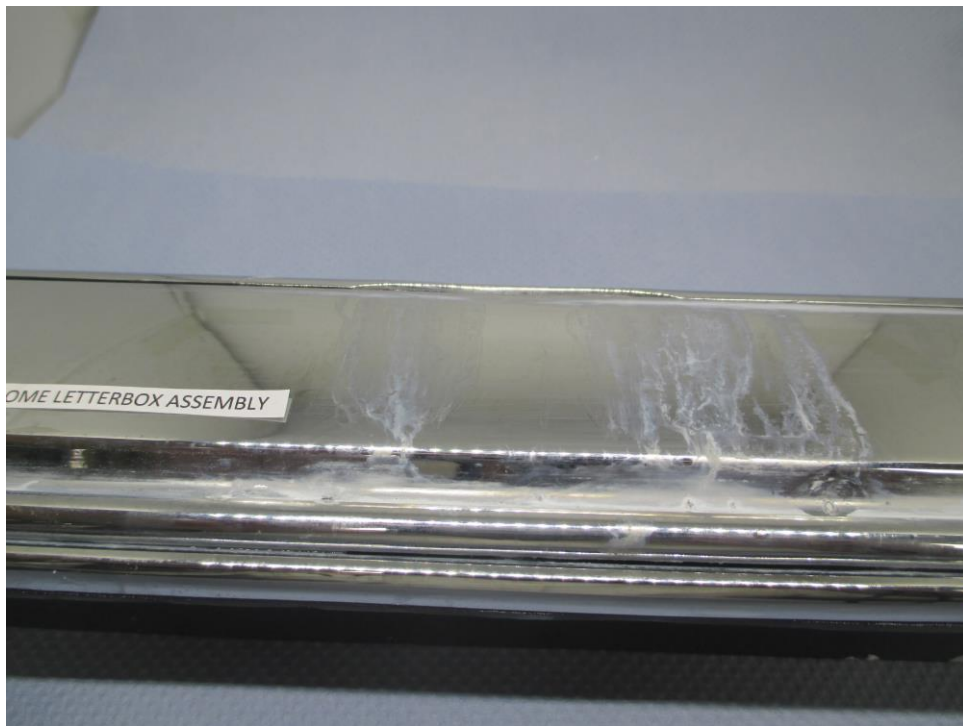
Photograph showing the condition of the Chrome Letterbox Assembly after 1008 hours Salt Spray Test

FIG 7



Photograph showing the condition of the Chrome Letterbox Assembly after 1008 hours Salt Spray Test

FIG 8



Photograph showing the condition of the Chrome Letterbox Assembly after 1008 hours Salt Spray Test