

IMR TEST LABS

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SALT SPRAY TEST REPORT

November 06, 2015

IMR Report Number 42492

Brian Peltier
American Machine
Specialties of NJ
51 Bergenline Ave
Westwood, NJ 07675

PO Number
3452

Date Received
October 13, 2015

Description
Two AMS 5540 Inconel 600
Stainless Steel hoods w/
#610 Ceramic Coating

SUMMARY

Two (2) AMS 5540 Inconel 600 stainless steel hoods w/ #610 ceramic coating :
received for 500 hours of salt fog exposure per ASTM B117-11. No pass/fail criterion was provided; and the customer requested a before/after comparison of appearance.

hoods. Detailed photographs of the samples prior to and post exposure

ANALYTICAL PROCEDURES & TEST EQUIPMENT

I. Visual Examination and Optical Microscopic Examination

- A. Visual Observations
- B. Photography (digital)

II. Environmental Exposure Testing

- A. Salt Spray Testing, 500 Hours per ASTM B117 -11



Reviewed by

Tony Thigpen
Corrosion Lab Technician

Reviewed by

Jennifer Breetz
Metallurgy and Corrosion
Supervisor

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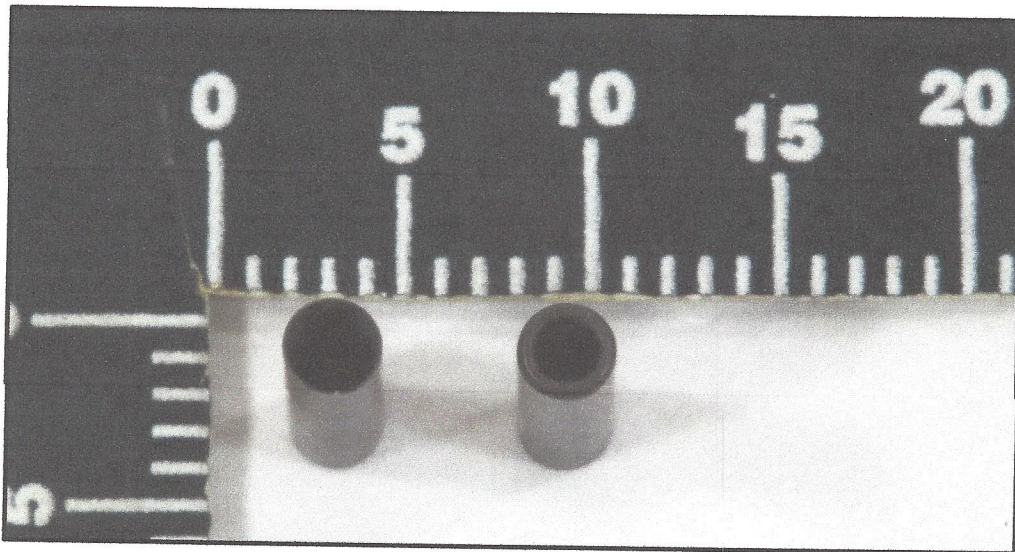


Figure 5: An overall photograph of the AMS 5540 Inconel 600 stainless steel hoods w/ #610 ceramic coating, prior to exposure.

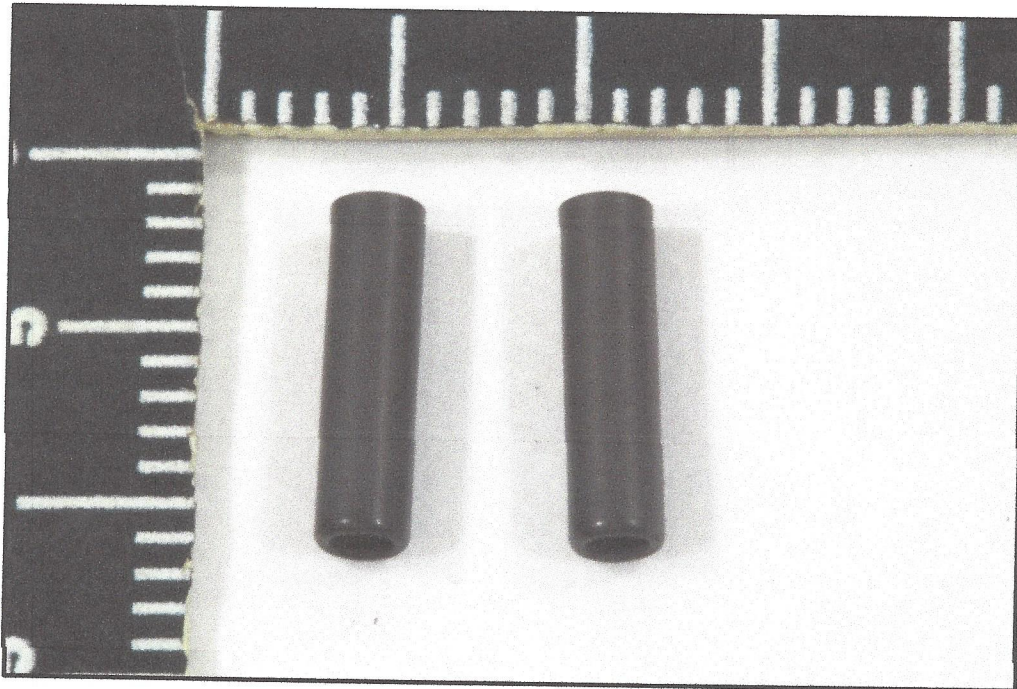


Figure 6: Another overall photograph of the AMS 5540 Inconel 600 stainless steel hoods w/ #610 ceramic coating, prior to exposure.

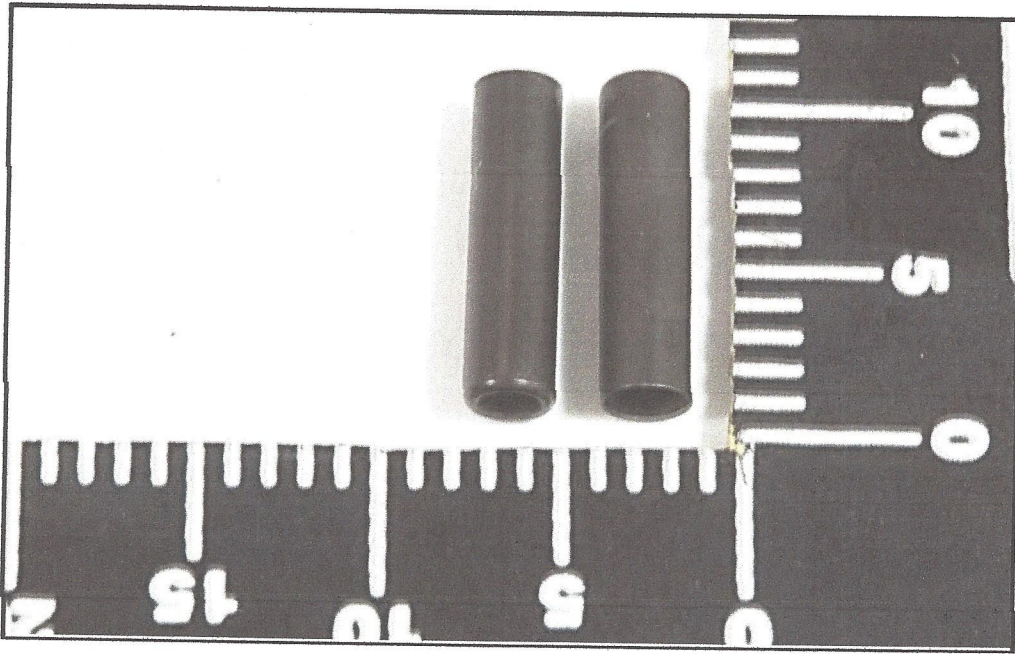


Figure 7: An overall photograph of the AMS 5540 Inconel 600 stainless steel hoods w/ #610 ceramic coating after 500 hours of salt fog exposure.

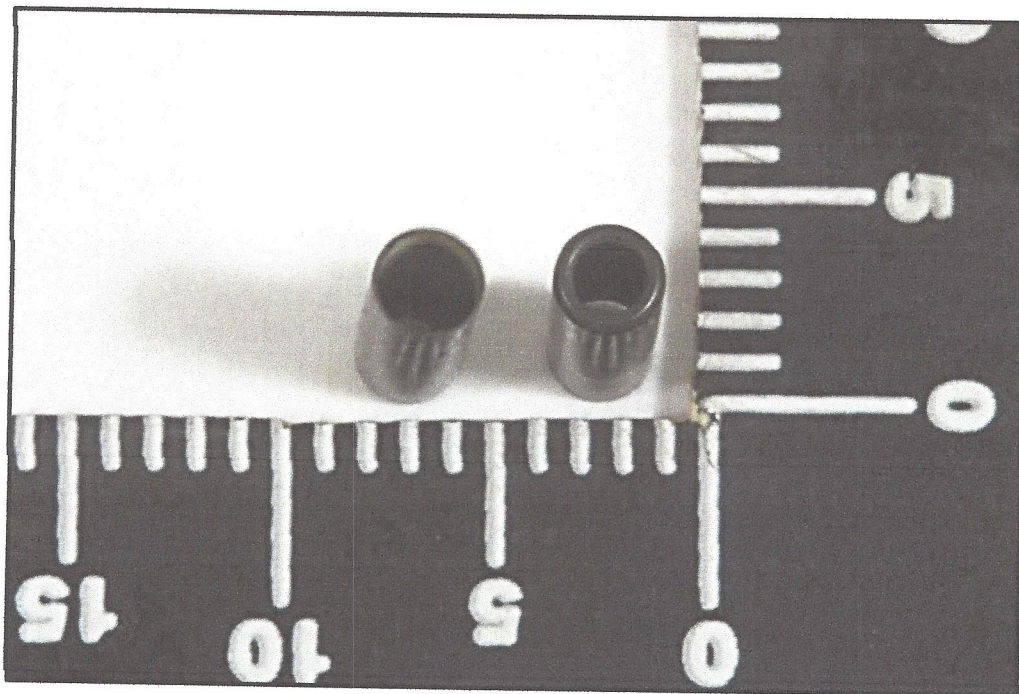


Figure 8: Another overall photograph of the AMS 5540 Inconel 600 stainless steel hoods w/ #610 ceramic coating after 500 hours of salt fog exposure.