



OzKem Australia Pty Ltd
810 Princes Highway
Tempe 2044 NSW
Australia

**ASTM G21, Resistance to Fungi, Testing of ECRA-SH and ECRA-SHM,
Super Hydrophobic (LME) coated aluminium panels**

Results of the above testing: as per attached report

This report was prepared and reviewed by:

Thomas Wagner

Technical Director, OzKem Pty Ltd

Date: 19/03/2011



OzKem Australia Pty Ltd
810 Princes Highway
Tempe 2044 NSW
Australia

Test Report

Client : Pole Star Coils Pvt. Ltd.
Contact/Reported to : Mr Viveck Varma
Date : 19.03.2011
Test requirement : ASTM G21, Resistance to Fungi
Reference : G21/S1-15/BC030188
Sample details : ECRA-SH, ECRA-SHM in jade green colour, Uncoated Al
Substrate : Standard aluminium finstock, 20 x 20 mm coupons
Sample number : 10 coated coupons; 5 uncoated coupons

Test details : ASTM G21
Test Conditions: as per ASTM G21

Abstract

Pole Star Coils Pvt. Ltd has provided 10 green coated coupons on standard aluminium test finstock for ASTM G21, Fungi Resistance Testing. 5 uncoated finstock samples were provided for comparison. The coated coupons were identified as ECRA-SH and ECRA-SHM. The uncoated coupons were identified as Uncoated Al.

Test Conditions:

1. Temperature, 28 to 30°C
2. RH, 85%
3. Test duration, 28 days

Test Results

| Parameter | Coupon: 1 | Coupon: 2 | Coupon: 3 | Coupon: 4 | Coupon: 5 |
|--------------|-----------|-----------|-----------|-----------|-----------|
| Uncoated Al | +ve | +ve | +ve | +ve | +ve |
| Supercoat | -ve | -ve | -ve | -ve | -ve |
| Supercoat M+ | -ve | -ve | -ve | -ve | -ve |

NB:

Result **+ve** designation = Growth detected on the surface of uncoated coupons
Result **-ve** designation = NO GROWTH was detected on ECRA-SH and ECRA-SHM coupons.

Test rating

1. Uncoated aluminium finstock sample coupons have all failed the 28 day exposure test according to ASTM G21 conditions.
2. Coated sample coupons marked ECRA-SH and ECRA-SHM have ALL passed the 28 day exposure test according to ASTM G21 conditions, achieving Growth rating of '0'.

Conclusion

ECRA-SH and ECRA-SHM coated coupons have PASSED the ASTM G21 test conditions.