

CERTIFICATE OF COMPLIANCE

Certificate Number E219390
Report Reference E219390-20120326
Date 2021-September-06

Issued to: Neograf Solutions, LLC
11709 Madison Ave
Lakewood OH, 44107-5230 US

**This is to certify that
representative samples of**

MISCELLANEOUS INSULATING, CERAMIC, METALLIC
AND CONDUCTING MATERIALS - COMPONENT

See Addendum Page for Product Designation(s).

Have been investigated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL746A - Polymeric Materials - Short Term Property Evaluations

Additional Information: See the UL Online Certifications Directory at <https://iq.ulprospector.com> for additional information

This *Certificate of Compliance* does not provide authorization to apply the UL Recognized Component Mark. Only the UL Follow-Up Services Procedure provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

Any information and documentation involving UL Mark services are provided on behalf of UL LLC (UL) or any authorized licensee of UL. For questions, please contact a local UL Customer Service Representative at <http://ul.com/aboutul/locations/>



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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

HT-(q)(r)(g), HT-(q)(r), HS400, SS(a)-(p)-(c)G(c), SSFLX(a)-(p)-(c)G(c), SS1000+, SSH-017-P/P-220, SSH-017-P/P-220 HAT

INDEX TO FOOTNOTES:

- (a) - Represents the thermal conductivity of the base graphite
- (c) - Represents various optional coatings with designations of P1, A1, M3, Cu or C1 which may appear only once on one or both sides of the graphite
- (d) - Represents values from 0.010 and greater for the thickness of the graphite
- (g) - Represents various optional coatings with designations of P2, A, P, AP or ES which may appear only once on each side of the graphite
- (p) - Represents values from 0.03mm and greater indicative of the graphite thickness.
- (q) - Represents thermal conductivity where 7=6.0 W/mK, 12=10.0 W/mK and 25=16.0 W/mK
- (r) - Represents the graphite thickness where 05=0.005 inches, 10=0.010 inches and 20=0.020 inches
- (h) – Represents graphite only without coatings for IR, DSC, TGA, GC scan
- (n) - Represents Aroset 3300 adhesive only for IR scan
- (k) - Represents PET film with EVA coating
- (l) - Represents PET film
- (m) – Represents adhesive designated AL6004 by Sia Adhesives, Inc.



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