Test Report
No. 4513558-01_rev01 Date: 18/MAY/2018

Superior Graphite Europe Ltd.
Mr. Eric Salmon
Box 13000
85013 Sundsvall
SWEDEN

The following samples were submitted and identified by/on behalf of the client as

SGS Job file : 4513558
Order date : 16/MAR/2018
Order number : -
Sample receiving Date : 04/APR/2018
Sampling condition of the samples : by Client or by a third party acting at the Client's direction appropriate for testing
Testing period : 04/APR/2018 – 09/MAY/2018
Analytical scope : According to client's requirements

Sample No : 180321407
Sample designation : DESULCO®, recarburiser

Test requested : In accordance with the RoHS Directive 2011/65/EU and subsequent amendments
Test Method(s)
(1) Determination of Cadmium by ICP-OES, acc. IEC 62321-5:2013
(2) Determination of Lead by ICP-OES, acc. IEC 62321-5:2013
(3) Determination of Mercury by CV-AAS, acc. IEC 62321-4:2013
(4) Determination of Chromium by ICP-OES, acc. IEC 62321-5:2013
(5) Determination of Chromium (VI) acc. IEC 62321:
- (a) Determination after extraction with hot water and derivatisation with 1,5-diphenyl-carbazide based on IEC 62321-7:1.2015 (metal samples), ion chromatography
- (b) Non-metallic samples) Determination after alkaline extraction and derivatisation with 1,5-diphenyl-carbazide based on IEC 62321, Ed1, 2008, (polymer and electronic samples), ion chromatography
Remark: Due to its highly reactive nature the concentration of Cr(VI) in a corrosion-protection changes drastically with time and storage conditions. The results obtained by IEC 62321-7:1.2015 can therefore only give an indication of the presence/absence of Cr(VI) within the limitations of the method at the time of testing.
(6) Determination of PBB/PBDE by GC/MS, acc. IEC 62321-6:2015
Remark: Please note that acc. to IEC the testing of metals for PBB/PBDE is gratuitous
(7) Determination of Phthalates by GC/MS
In-house method, GC-MS after extraction with toluene

Test Result(s) : Please refer to next page(s)
Based on the performed tests on submitted sample(s), the test results of Lead, Mercury, Cadmium, hexavalent Chromium, Polybrominated Biphenyls (PBB) and Polybrominated Diphenyl Ethers (PBDE) comply with the limits as set by RoHS Directive 2011/65/EU, Annex 2 and subsequent amendments.

Based on the performed tests on submitted sample(s), the test results of Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

This report supersedes the previous document bearing the test report number 4513556-01 which was issued on 09/MAY/2018. The sample designation of sample 180321407 has been changed acc. to customer requirement.

Signed for and on behalf of

SGS INSTITUT FRESENIUS GmbH

[Signatures]