

No.: ETR20B00987 Date: 12-Nov-2020

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

The following sample(s) was/were submitted and identified by/on behalf of the applicant as:

Sample Submitted By : FERRO GMBH Sample Name : OVERGLASS Style/Item No. : G485-2

Sample Receiving Date

: 05-Nov-2020

Testing Period

: 05-Nov-2020 to 12-Nov-2020

Test Requested

(1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP contents in the submitted sample(s).

(2) Please refer to next pages for the other item(s).

Test Results

Please refer to following pages.

Conclusion

(1) Based on the performed tests on submitted sample(s), the test results of Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs, DBP, BBP, DEHP, DIBP comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Troy Change Manager Te Signed for and on behalf SGS TAIWAN LTD.
Chemical Laboratory - Taipei



Page: 1 of 13

PIN CODE: 5943F292



No.: ETR20B00987 Date: 12-Nov-2020 Page: 2 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

TEST PART DESCRIPTION

No.1 : LT.GREEN PASTE

Test Result(s)

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Cadmium (Cd) (CAS No.: 7440-43-9)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	n.d.	100
Lead (Pb) (CAS No.: 7439-92-1)	With reference to IEC 62321-5: 2013, analysis was performed by ICP-OES.	mg/kg	2	6.64	1000
Mercury (Hg) (CAS No.: 7439-97-6)	With reference to IEC 62321-4: 2013+AMD1: 2017, analysis was performed by ICP-OES.	mg/kg	2	n.d.	1000
Hexavalent Chromium Cr(VI) (CAS No.: 18540-29-9)	With reference to IEC 62321-7-2: 2017, analysis was performed by UV-VIS.	mg/kg	8	n.d.	1000
Monobromobiphenyl		mg/kg	5	n.d.	-
Dibromobiphenyl		mg/kg	5	n.d.	-
Tribromobiphenyl		mg/kg	5	n.d.	-
Tetrabromobiphenyl		mg/kg	5	n.d.	-
Pentabromobiphenyl		mg/kg	5	n.d.	-
Hexabromobiphenyl		mg/kg	5	n.d.	-
Heptabromobiphenyl		mg/kg	5	n.d.	-
Octabromobiphenyl		mg/kg	5	n.d.	-
Nonabromobiphenyl		mg/kg	5	n.d.	-
Decabromobiphenyl		mg/kg	5	n.d.	-
Sum of PBBs	With reference to IEC 62321-6: 2015,	mg/kg	-	n.d.	1000
Monobromodiphenyl ether	analysis was performed by GC/MS.	mg/kg	5	n.d.	-
Dibromodiphenyl ether		mg/kg	5	n.d.	-
Tribromodiphenyl ether		mg/kg	5	n.d.	-
Tetrabromodiphenyl ether		mg/kg	5	n.d.	-
Pentabromodiphenyl ether		mg/kg	5	n.d.	-
Hexabromodiphenyl ether		mg/kg	5	n.d.	-
Heptabromodiphenyl ether		mg/kg	5	n.d.	-
Octabromodiphenyl ether		mg/kg	5	n.d.	-
Nonabromodiphenyl ether		mg/kg	5	n.d.	-
Decabromodiphenyl ether		mg/kg	5	n.d.	-
Sum of PBDEs		mg/kg	-	n.d.	1000



No.: ETR20B00987 Date: 12-Nov-2020 Page: 3 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Test Item(s)	Method	Unit	MDL	Result	Limit
Duty I became I related a lete (DDD) (CAC No.	With reference to IEC (2221 0, 2017	100 pt /1 cm	50	No.1	1000
Butyl benzyl phthalate (BBP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
85-68-7)	analysis was performed by GC/MS.		F0		1000
Dibutyl phthalate (DBP) (CAS No.: 84-	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
74-2)	analysis was performed by GC/MS.				
Di-(2-ethylhexyl) phthalate (DEHP)	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
(CAS No.: 117-81-7)	analysis was performed by GC/MS.				
Diisobutyl phthalate (DIBP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	1000
84-69-5)	analysis was performed by GC/MS.				
Diisodecyl phthalate (DIDP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
26761-40-0, 68515-49-1)	analysis was performed by GC/MS.				
Diisononyl phthalate (DINP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
28553-12-0, 68515-48-0)	analysis was performed by GC/MS.				
Di-n-octyl phthalate (DNOP) (CAS No.:	With reference to IEC 62321-8: 2017,	mg/kg	50	n.d.	-
117-84-0)	analysis was performed by GC/MS.	J, J			
Hexabromocyclododecane (HBCDD)	With reference to IEC 62321: 2008,	mg/kg	5	n.d.	_
and all major diastereoisomers	analysis was performed by GC/MS.				
identified (α- HBCDD, β- HBCDD, γ-					
HBCDD) (CAS No.: 25637-99-4, 3194-					
55-6 (134237-51-7, 134237-50-6,					
134237-52-8))					
Fluorine (F) (CAS No.: 14762-94-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	-
	analysis was performed by IC.				
Chlorine (Cl) (CAS No.: 22537-15-1)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	_
	analysis was performed by IC.	9,9			
Bromine (Br) (CAS No.: 10097-32-2)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	_
Diomine (Br) (C/O 140.: 10037-32-2)	analysis was performed by IC.	mg/kg	30	n.a.	
lodine (I) (CAS No.: 14362-44-8)	With reference to BS EN 14582: 2016,	mg/kg	50	n.d.	_
10dine (i) (CA3 No.: 14302-44-8)	analysis was performed by IC.	mg/kg	30	n.u.	_
DEOC and its salts (CAC No : 1762, 22.1	analysis was performed by ic.	ma/ka	0.01	n d	
PFOS and its salts (CAS No.: 1763-23-1 and its salts)	With reference to CEN/TS 15968:	mg/kg	0.01	n.d.	-
,	2010, analysis was performed by		0.01		
PFOA and its salts (CAS No.: 335-67-1	LC/MS/MS.	mg/kg	0.01	n.d.	-
and its salts)					
Antimony (Sb) (CAS No.: 7440-36-0)	With reference to US EPA 3052: 1996, analysis was performed by ICP-OES.	mg/kg	2	n.d.	-
Arsenic (As) (CAS No.: 7440-38-2)		mg/kg	2	n.d.	-
Beryllium (Be) (CAS No.: 7440-41-7)		mg/kg	2	n.d.	-



No.: ETR20B00987 Date: 12-Nov-2020 Page: 4 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Test Item(s)	Method	Unit	MDL	Result	Limit
				No.1	
Asbestos					
Actinolite (CAS No.: 77536-66-4)	With reference to EPA 600/R-93/116:	%	-	Negative	-
Amosite (CAS No.: 12172-73-5)	1993, analysis was performed by	%	-	Negative	-
Anthophyllite (CAS No.: 77536-67-5)	Stereo Microscope (SM), Dispersion	%	-	Negative	-
Chrysotile (CAS No.: 12001-29-5)	Staining Polarized Light Microscope	%	-	Negative	-
Crocidolite (CAS No.: 12001-28-4)	(DS-PLM) and X-ray Diffraction	%	-	Negative	-
Tremolite (CAS No.: 77536-68-6)	Spectrometer (XRD).	%	-	Negative	-

Note:

- 1. mg/kg = ppm; 0.1wt% = 1000ppm
- 2. MDL = Method Detection Limit
- 3. n.d. = Not Detected (Less than MDL)
- 4. "-" = Not Regulated
- 5. Testing range of asbestos qualitative analysis is from less than 0.1% to 100%. The judgment criterion: asbestos fibers being found is shown as "Positive"; asbestos fibers not being found is shown as "Negative".
- 6. PFOS and its salts including:
 - CAS No.: 29081-56-9, 2795-39-3, 29457-72-5, 70225-14-8, 56773-42-3, 251099-16-8, 307-35-7.
- 7. PFOA and its salts including:
 - CAS No.: 3825-26-1, 335-95-5, 2395-00-8, 335-93-3, 335-66-0.
- 8. The statement of compliance conformity is based on comparison of testing results and limits.



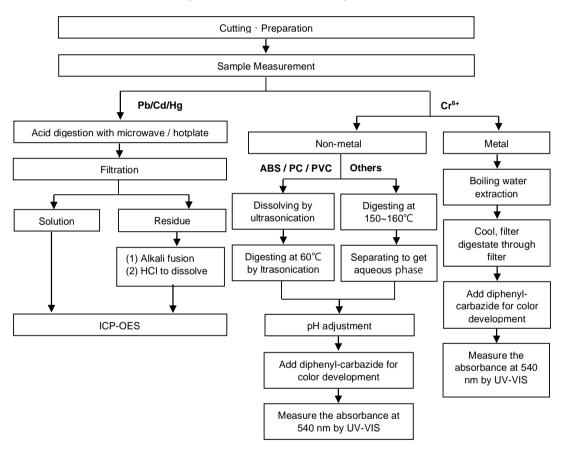
No.: ETR20B00987 Date: 12-Nov-2020 Page: 5 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

(Cr6+ test method excluded)

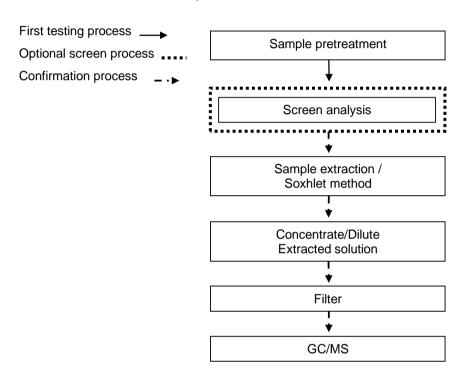




No.: ETR20B00987 Date: 12-Nov-2020 Page: 6 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart - PBBs / PBDEs



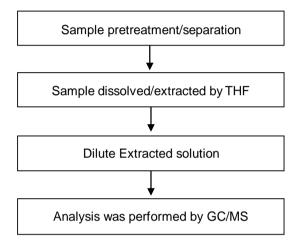


No.: ETR20B00987 Date: 12-Nov-2020 Page: 7 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart - Phthalate

[Test method: IEC 62321-8]

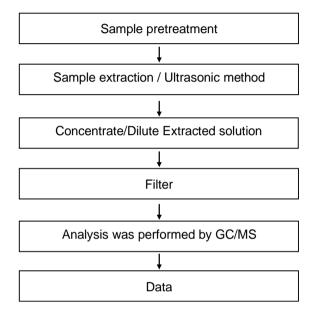




No.: ETR20B00987 Date: 12-Nov-2020 Page: 8 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart - HBCDD

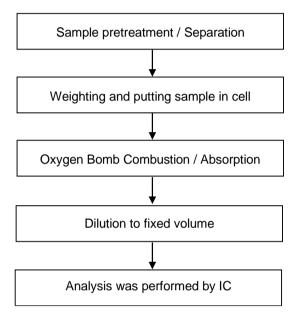




No.: ETR20B00987 Date: 12-Nov-2020 Page: 9 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart - Halogen

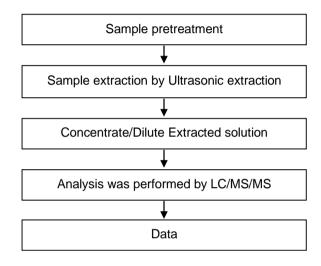




No.: ETR20B00987 Date: 12-Nov-2020 Page: 10 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart - PFOA/PFOS





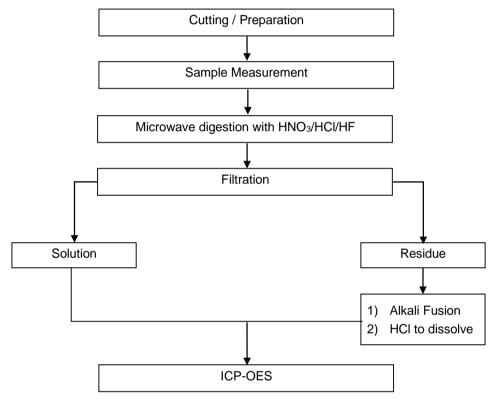
No.: ETR20B00987 Date: 12-Nov-2020 Page: 11 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analytical flow chart of Heavy Metal

These samples were dissolved totally by pre-conditioning method according to below flow chart.

[Reference method : US EPA 3051 \ US EPA 3052]



* US EPA 3051 method does not add HF.

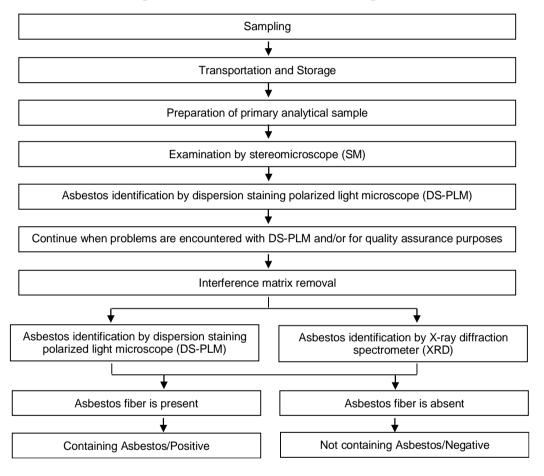


No.: ETR20B00987 Date: 12-Nov-2020

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

Analysis flow chart for determination of Asbestos

[Reference method: EPA 600/R-93/116]



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at https://www.sgs.com.tw/terms-of-service and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at https://www.sgs.com.tw/terms-of-service. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of client's instruction, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced, except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Page: 12 of 13

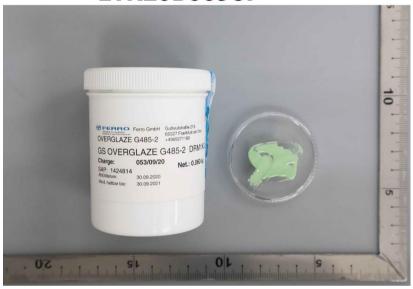


No.: ETR20B00987 Date: 12-Nov-2020 Page: 13 of 13

FERRO GMBH
GUTLEUTSTRASS 215, 60327 FRANKFURT AM MAIN GERMANY

* The tested sample / part is marked by an arrow if it's shown on the photo. *

ETR20B00987



** End of Report **