

CIN:U74220DL1998PLC092698

TEST REPORT

Test Report Issued To:

FEROLITE JOINTINGS LIMITED

C-178, SITE NO-1, B.S. ROAD INDL. AREA, GHAZIABAD,
UTTAR PRADESH, INDIA, 201001,

Test Report No: D190829035/D190829035-1

Date of Issue: 07-Sep-2019



Sample Receipt Date: 29-Aug-2019

Date of Start of Testing: 03-Sep-2019

Date of Completion of Test: 07-Sep-2019

Customer Relationship Number 13253

Sample Description :

SAMPLE OF FEROLITE NAM 39(BLUE/BLUE) THICK 1.00MM



Customer Reference No

FJL:LAB.AUG-2019(B), DT.29.08.19

Kind Attention : MR. MITRA NAND

E-Mail: lab@ferolite.com

Contact No: 9810295331

Sample Condition : NA

Sample Quantity (Approx) : NA

Sample Size (Approx) : NA

SAMPLE NOT DRAWN BY OUR LABORATORY. THE RESULTS RELATE ONLY TO THE ITEMS TESTED



Digitally signed
by PRAVEEN
SINGH
Date: 2019.09.04
10:37:21 +05:30

Report Issued By

Authenticity of report can be verified by mail at verification@spectrolab.in

This is a Digitally Signed Report and hence doesn't require Physical Signature.

Spectro Analytical Labs Limited, E-41, Okhla Indl. Area, Phase-II, New Delhi- 110020 (India)

Phone :+91-11-40522000, 41611000 || Web : www.spectro.in || Email: care@spectro.in

ISO 9001:2015, ISO 14001:2015 & ISO 45001:2018 Certified Laboratory

Please refer to our Website <http://www.spectro.in/spectro-policies.html> for Terms & Condition

TEST REPORT

ROHS ANALYSIS TEST

Sample ID : D190829035-1
Revision Summary: : Picture updated on the report.
Test Requested : ROHS analysis testing
Test Method &Results : Please refer to next page

S. No	Restricted substances (As per DIRECTIVE 2015/863 in Article 4 (ANNEX-II))	Maximum Concentration Level
1	Lead (Pb)	0.1% by weight/1,000 parts per million (ppm)
2	Cadmium (as Cd)	0.01% by weight/100 parts per million (ppm)
3	Mercury (as Hg)	0.1% by weight/1,000 parts per million (ppm)
4	Hexavalent Chromium (Cr+6)	0.1% by weight/1,000 parts per million (ppm)
5	Polybrominated Biphenyl (PBB) flame retardants	0.1% by weight/1,000 parts per million (ppm)
6	Polybrominated diphenyl ether (PBDE) flame retardants	0.1% by weight/1,000 parts per million (ppm)
7.	Di-n-butyl Phthalate (DBP)	0.1% by weight/1,000 parts per million (ppm)
8.	Bis (2-ethylhexyl) Phthalate (DEHP)	0.1% by weight/1,000 parts per million (ppm)
9.	Di-isobutyl Phthalate (DIBP)	0.1% by weight/1,000 parts per million (ppm)
10.	Benzyl butyl Phthalate (BBP)	0.1% by weight/1,000 parts per million (ppm)

Result Summary:

Test Requested	Comment
ROHS Test as per European Directive 2015/863 Annex II (RoHS); recasting 2011/65/EU – Lead, Cadmium, Mercury, Hexavalent Chromium, Polybrominated biphenyls (PBB) & Polybrominated diphenyl ether (PBDE), Di-n-butyl Phthalate (DBP), Bis (2-ethylhexyl) Phthalate (DEHP), Di-isobutyl Phthalate (DIBP), Benzyl butyl Phthalate (BBP)	PASS

Amit Kashishtha
Analyst Signature



Digitally signed
by PRAVEEN
SINGH
Date: 2019.09.04
10:37:21 +05:30

Authorised Signatory

TEST REPORT

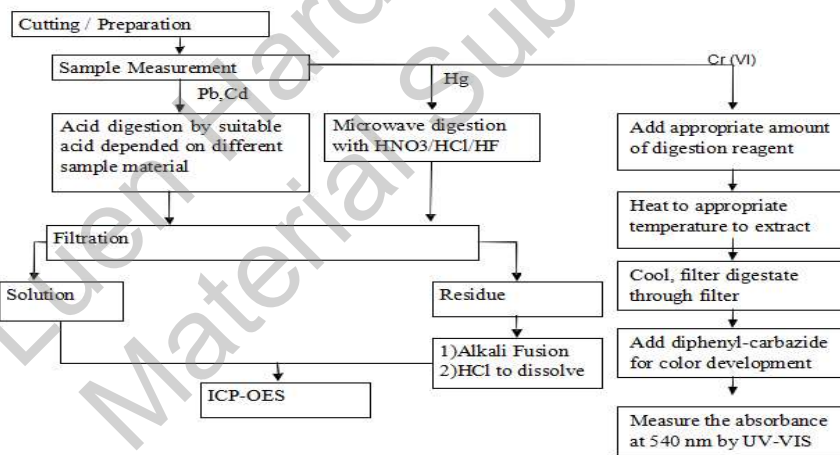
Testing Analysis Result

Testing Parameters	Unit	Test Method	Results	MDL	RoHS Limit
Lead (Pb)	mg/kg	With reference to IEC 62321-5:2013. Analysis was performed by ICP/OES	26	5	1000
Cadmium(Cd)	mg/kg	With reference IEC 62321-5:2013. Analysis was performed by ICP/OES	BDL	5	100
Mercury (Hg)	mg/kg	With reference IEC 62321-4:2013. Analysis was performed by ICP/OES	BDL	5	1000
Hexavalent Chromium (Cr(VI))	mg/kg	With reference to IEC 62321-7-2:2017. Analysis was performed by UV/Vis Spectrometry	BDL	5	1000

Remark: mg/kg = ppm, 0.1wt% = 1000ppm, BDL= Not Detected, MDL = Method Detection Limit

Testing Analysis Flow Chart

Flow of IEC 62321 (Pb, Cd, Hg & Cr⁶⁺)



Remarks: Sample received was totally dissolved by preconditioning method. (excluded Cr(VI) method)

Amit Kashishtha

Analyst Signature



Digitally signed
by PRAVEEN
SINGH
Date: 2019.09.04
10:37:21 +05:30

Authorised Signatory

Testing Analysis Result

Testing Parameters	Unit	Test Method	Results	MDL	RoHS Limit	
Polybrominated Biphenyls (PBBs)	mg/kg	With reference to IEC62321, Ed1:2008-12. Analysis was performed by GC/MS	ND	-	1000	
Monobromobiphenyl	mg/kg		ND	10	-	
Dibromobiphenyl	mg/kg		ND	10	-	
Tribromobiphenyl	mg/kg		ND	10	-	
Tetrabromobiphenyl	mg/kg		ND	10	-	
Hexabromobiphenyl	mg/kg		ND	10	-	
Pentabromobiphenyl	mg/kg		ND	10	-	
Heptabromobiphenyl	mg/kg		ND	10	-	
Octabromobiphenyl	mg/kg		ND	10	-	
Nonabromobiphenyl	mg/kg		ND	10	-	
Decabromobiphenyl	mg/kg		ND	10	-	
Polybrominated Diphenylethers (PBDEs)	mg/kg		EPA-8061 A Analysis was performed by GC/MS	ND	-	1000
Monobromodiphenyl ether	mg/kg			ND	10	-
Dibromodiphenyl ether	mg/kg			ND	10	-
Tribromodiphenyl ether	mg/kg	ND		10	-	
Tetrabromodiphenyl ether	mg/kg	ND		10	-	
Pentabromodiphenyl ether	mg/kg	ND		10	-	
Hexabromodiphenyl ether	mg/kg	ND		10	-	
Heptabromodiphenyl ether	mg/kg	ND		10	-	
Octabromodiphenyl ether	mg/kg	ND		10	-	
Nonabromodiphenyl ether	mg/kg	ND		10	-	
Decabromodiphenyl ether *	mg/kg	ND		10	-	
Di-n-butyl Phthalate (DBP)	mg/kg	BDL		10	1000	
Bis (2-ethylhexyl) Phthalate (DEHP)	mg/kg	12.29		10	1000	
Di-isobutyl Phthalate (DIBP)	mg/kg	14.29		10	1000	
Benzyl butyl Phthalate (BBP)	mg/kg	BDL	10	1000		

- Note:
- (1) mg/kg = ppm ; 0.1wt% = 1000ppm
 - (2) BDL=Below Detection Limit
 - (3) ND = Not Detected
 - (4) MDL = Method Detection Limit
 - (5) * = The exemption of DecaBDE in polymeric application according 2005/717/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008.

Pragati
Analyst Signature

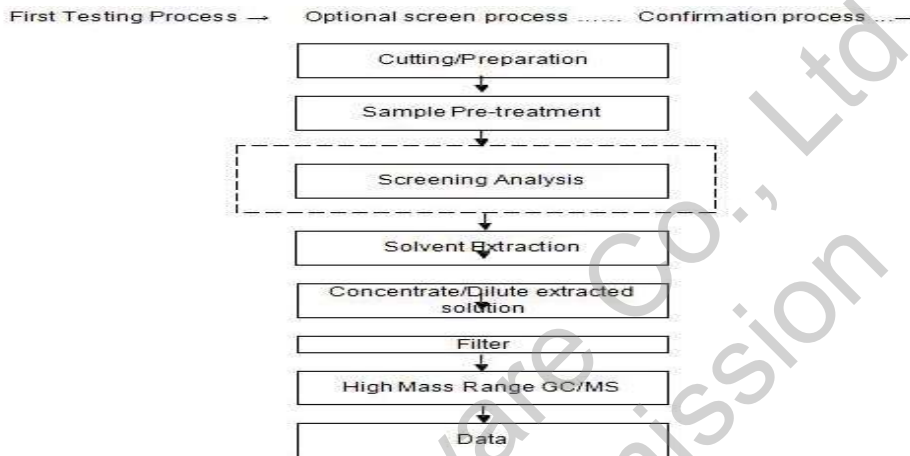


Digitally signed
by Astha Vig
Date:
2019.09.07
10:37:22 +05:30

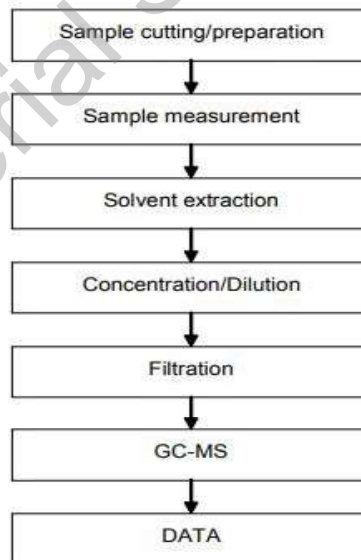
Authorised Signatory

Testing Analysis Flow Chart

Process Flow of PBB & PBDE by GC/MS (IEC-62321)



Process Flow of Phthalates by GC/MS



-- End of Test Report --



Digitally signed
 by Astha Vig
 Date: 2019.09.07
 10:37:22 +05:30

Pragati
 Analyst Signature

Authorised Signatory