

Applicant : Nanotech Co., Ltd.

Address: #149-3, Gongdan-dong, Gumi-si,

Gyeongsangbuk-do, Korea

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Report No. RT12R-U2247-E Date: Dec. 07, 2012

Sample Description : The following submitted sample(s) said to be:-

Name/Type of Product : CLEANER
Sample ID No. : RT12R-U2247
Item No. : NTC-095

Manufacturer/Vender : Nanotech Co., Ltd.

Sample received : Dec. 03, 2012

Testing Date : Dec. 03, 2012 ~ Dec. 07, 2012

Test Type : RoHS wet chemical analysis
Test Method(s) : Please see the following page(s).
Test Result(s) : Please see the following page(s).

Approved by, Authorized by,

E.Y.Lee / Lab. Technical Manager H.W.Yoo / Lab. General Manager

^{*} Note 1: The test results presented in this report relate only to the object tested.

^{*} Note 2: This report shall not be reproduced except in full without the written approval of the testing laboratory.

^{*} Note 3 : The item no. is assigned by client and indicated according to their requirement and guarantee letter.



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Report No. RT12R-U2247-E Date: Dec. 07, 2012

Sample ID No. : RT12R-U2247 Sample Description : CLEANER

Test Item	Unit	Test Method	MDL	Result		
Cadmium (Cd)	mg/kg	With reference to IEC 62321 Edition 1.0:2008, by acid digestion and determined by ICP-OES	0.5	N.D.		
Lead (Pb)	mg/kg		5	N.D.		
Mercury (Hg)	mg/kg		2	N.D.		
Hexavalent Chromium (Cr ⁶⁺) (For non-metal)	mg/kg	With reference to IEC 62321 Edition 1.0:2008, by alkaline digestion and determined by UV-VIS Spectrophotometer	1	N.D.		
Polybrominated Biphenyl (PBBs)						
Monobromobiphenyl	mg/kg		5	N.D.		
Dibromobiphenyl	mg/kg		5	N.D.		
Tribromobiphenyl	mg/kg		5	N.D.		
Tetrabromobiphenyl	mg/kg	With reference to IEC 62321 Edition 1.0:2008, by solvent extraction and determined by GC/MS	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.		
Polybrominated Diphenyl Ether (PBDEs)						
Monobromodiphenyl ether	mg/kg	With reference to IEC 62321 Edition 1.0:2008, by solvent extraction and determined by GC/MS	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.		

Tested by: YK Cho, HJ Kim, MB Song

Notes: mg/kg = ppm = parts per million

< = Less than

N.D. = Not detected (<MDL)
MDL = Method detection limit



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Report No. RT12R-U2247-E Date: Dec. 07, 2012

Sample ID No. : RT12R-U2247 Sample Description : CLEANER

Test Item	Unit	Test Method	MDL	Result
Bromine (Br)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
Chloride (Cl)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.

Tested by: YK Cho

Notes: mg/kg = ppm = parts per million

< = Less than

N.D. = Not detected (<MDL)
MDL = Method detection limit

* View of sample as received;-

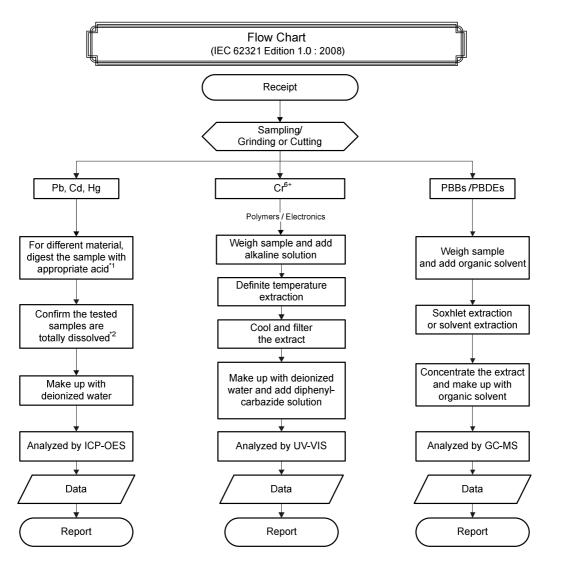




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Remarks:

*1 : List of appropriate acid :

Material	Acid added for digestion
Polymers	HNO _{3,} HCI, HF, H ₂ O ₂ , H ₃ BO ₃
Metals	HNO ₃ , HCI, HF
Electronics	HNO ₃ , HCI, H ₂ O ₂ , HBF ₄

^{*2:} The samples were dissolved totally by pre-conditioning method according to above flow chart.

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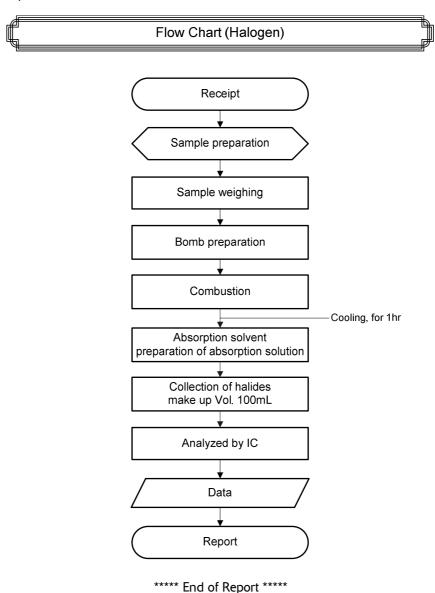
Intertek Testing Services Korea Ltd.



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Sample ID No. : RT12R-U2247 Sample Description : CLEANER



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