

(시 험 성 적 서)

신청기관 (인) : 나노테크

Applicant : Nanotech Co., Ltd.

주소 (한글) : 경상북도 구미시 공단동 149-3번지 Address (Engl.) : #149-3, Gongdan-dong, Gumi-si, Gyeongsangbuk-do, Korea

발행면수 (Page): 1 of 5

발행일자 (Date): 2012. 10. 22.

시험성적서 번호 (Report No.): RT12R-U1928-K

시료 명세 : 시료에 대한 상세한 정보는 아래와 같음 (Sample Description) (The following submitted sample(s) said to be)

제품명/형식 : CLEANER (Name/Type of Product) (CLEANER)

시료고유번호 : RT12R-U1928 (Sample ID No.) (RT12R-U1928)

품번 : NTC-736 (Item No.) : (NTC-736)

제품 생산자/공급자 : 나노테크

(Manufacturer/Vender) (Nanotech Co., Ltd.)

시료접수일자 : 2012. 10. 17. (Sample received) (Oct. 17, 2012)

시험일자 : 2012. 10. 17. ~ 2012. 10. 22. (Testing Date) : (Oct. 17, 2012 ~ Oct. 22, 2012)

시험유형 : RoHS 화학분석

(Test Type) (RoHS wet chemical analysis)

시험방법 : 이 시험성적서의 다음 페이지 첨부

(Test Method) (Please see the following page)

시험결과 : 이 시험성적서의 다음페이지에 첨부

(Test Result) (Please see the following page)

비고 (Notes): 1. 이 시험성적서는 제시된 시료 및 시료명으로 시험한 결과로서 유사 대상시료에 적용할 수 없음.

(The Test Results presented in this report relate only to the object tested.)

2. 이 시험성적서는 승인없이 복사 사용을 금함.

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3. 이 시험성적서의 품번은 고객의 요청 및 보증서에 의거하여 명기함.

(The item no. is assigned by client and indicated according to their requirement and guarantee letter.)

승인자 (Approved by)

권한자 (Authorized by)

이응용 /기술책임자 (E.Y.Lee / Lab. Technical Manager)

유환우 /소장 (H.W.Yoo / Lab. General Manager)

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시험성적서 번호 (Report No.): RT12R-U1928-K

시료고유번호 (Sample ID No.): RT12R-U1928 시료명 (Sample Description) : CLEANER

(CLEANER)

시험항목	단위	분석방법	검출한계	시험결과
(Test Item)	(Unit)	(Test Method)	(MDL)	(Result)
카드뮴 (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.
납 (Lead, Pb)	mg/kg		5	N.D.
수은 (Mercury, Hg)	mg/kg		2	N.D.
6가 크롬 (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.
폴리브롬화비페닐 (Polybrominated Bipheny	yls, PBBs)			
모노브로모비페닐 (MonoBB)	mg/kg		5	N.D.
다이브로모비페닐 (DiBB)	mg / kg		5	N.D.
트라이브로모비페닐 (TriBB)	mg/kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	5	N.D.
테트라브로모비페닐 (TertaBB)	mg / kg		5	N.D.
펜타브로모비페닐 (PentaBB)	mg/kg		5	N.D.
헥사브로모비페닐 (HexaBB)	mg/kg		5	N.D.
헵타브로모비페닐 (HeptaBB)	mg/kg		5	N.D.
옥타브로모비페닐 (OctaBB)	mg/kg		5	N.D.
노나브로모비페닐 (NonaBB)	mg/kg		5	N.D.
데카브로모비페닐 (DecaBB)	mg/kg		5	N.D.
폴리브롬화디페닐에테르 (Polybrominated	Diphenyl Ethe	rs, PBDEs)		
모노브로모디페닐에테르 (MonoBDE)	mg / kg		5	N.D.
다이브로모디페닐에테르 (DiBDE)	mg / kg		5	N.D.
트라이브로모디페닐에테르 (TriBDE)	mg / kg	With reference to IEC 62321 Edition 1.0 : 2008, by solvent extraction and determined by GC/MS	5	N.D.
테트라브로모디페닐에테르 (TetraBDE)	mg / kg		5	N.D.
펜타브로모디페닐에테르 (PentaBDE)	mg / kg		5	N.D.
헥사브로모디페닐에테르 (HexaBDE)	mg/kg		5	N.D.
헵타브로모디페닐에테르 (HeptaBDE)	mg/kg		5	N.D.
옥타브로모디페닐에테르 (OctaBDE)	mg/kg		5	N.D.
노나브로모디페닐에테르 (NonaBDE)	mg/kg		5	N.D.
데카브로모디페닐에테르 (DecaBDE)	mg/kg		5	N.D.

Tested by: YK Cho, HJ Kim, MB Song

Notes: mg/kg = ppm = parts per million (함량 표시 : 백만분의 일)

<= Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 - 검출한계 이하)

MDL = Method detection limit (검출한계)

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시험성적서 번호 (Report No.) : RT12R-U1928-K

시료고유번호 (Sample ID No.) : RT12R-U1928 시료명 (Sample Description) : CLEANER

(CLEANER)

시험항목	단위	분석방법	검출한계	시험결과
(Test Item)	(Unit)	(Test Method)	(MDL)	(Result)
브롬 (Bromine, Br)	mg/kg	With reference to EN 14582, by oxygen combustion with bomb and determined by IC	30	N.D.
염소 (Chlorine, 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 (함량 표시 : 백만분의 일)

<= Less than (결과 값 이하)

N.D. = Not detected (< MDL, 미검출 - 검출한계 이하)

MDL = Method detection limit (검출한계)

* 시료 접수 시 시료 상태 : (View of sample as received)



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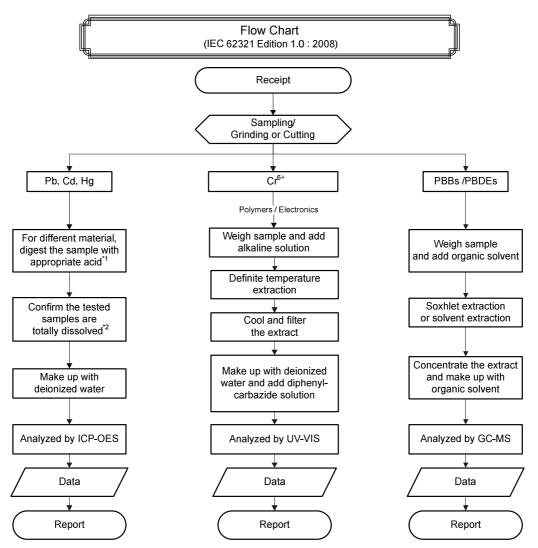
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시험성적서 번호 (Report No.): RT12R-U1928-K

시료고유번호 (Sample ID No.) : RT12R-U1928 시료명 (Sample Description) : CLEANER

(CLEANER)



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	HNO₃, 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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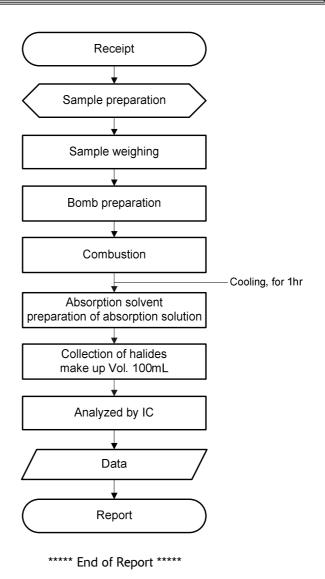
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시험성적서 번호 (Report No.): RT12R-U1928-K

시료고유번호 (Sample ID No.): RT12R-U1928 시료명 (Sample Description) : CLEANER (CLEANER)

Flow Chart (Halogen)



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