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# Test Report

No. : KA/2020/42000

Date : 2020/05/14

Page : 1 of 6

NITTO DENKO CORPORATION  
 919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN


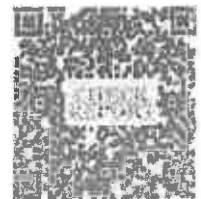
The following sample(s) was/were submitted and Identified by/on behalf of the applicant as :

Sample Submitted By : NITTO DENKO CORPORATION  
 Sample Description : MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR  
 Style/Item No. : NT-300 SERIES  
 Sample Receiving Date : 2020/04/28  
 Testing Period : 2020/04/28 to 2020/05/04

Test Requested : As specified by client, with reference to RoHS Directive 2011/65/EU Annex II to determine Cadmium, Lead, Mercury, Cr(VI), PBBs, PBDEs contents in the submitted sample.

Test Result(s) : Please refer to next page(s).

*Ray Chang*  
 Ray Chang Ph.D. / Manager  
 Signed for and on behalf of  
 SGS Taiwan Limited  
 Chemical Laboratory-Kaohsing

PIN CODE: B8DB1762

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# Test Report

No. : KA/2020/42000

Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

## Test Result(s)

PART NAME No.1 : WHITE MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR

Test Item(s)	Unit	Method	MDL	Result No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-OES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321-5: 2013 and performed by ICP-OES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321-4:2013+AMD1:2017 and performed by ICP-OES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321-7-2:2017 and performed by UV-VIS.	8	n.d.
<b>Sum of PBBs</b>	mg/kg	With reference to IEC 62321-6:2015 and performed by GC/MS.	-	n.d.
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
<b>Sum of PBDEs</b>			mg/kg	With reference to IEC 62321-6:2015 and performed by GC/MS.
Monobromodiphenyl ether	5	n.d.		
Dibromodiphenyl ether	5	n.d.		
Tribromodiphenyl ether	5	n.d.		
Tetrabromodiphenyl ether	5	n.d.		
Pentabromodiphenyl ether	5	n.d.		
Hexabromodiphenyl ether	5	n.d.		
Heptabromodiphenyl ether	5	n.d.		
Octabromodiphenyl ether	5	n.d.		
Nonabromodiphenyl ether	5	n.d.		
Decabromodiphenyl ether	5	n.d.		

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## Test Report

No. : KA/2020/42000

Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

### Note :

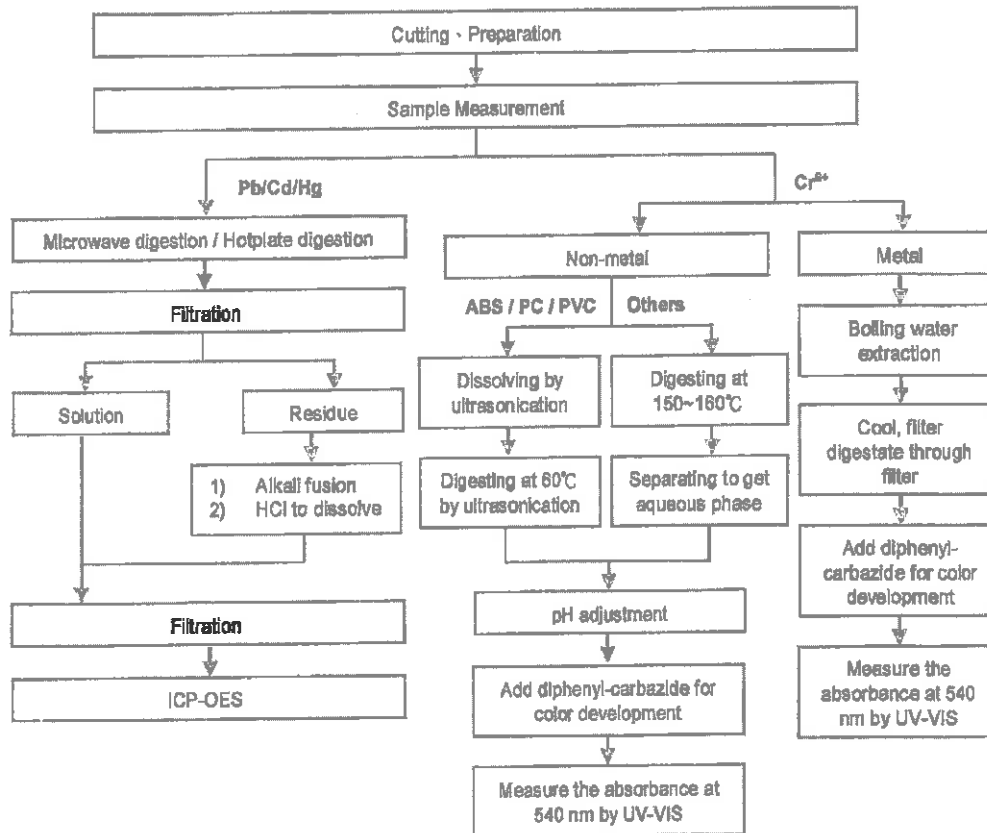
1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit
4. " - " = Not Regulated

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

### Analytical flow chart of Heavy Metal

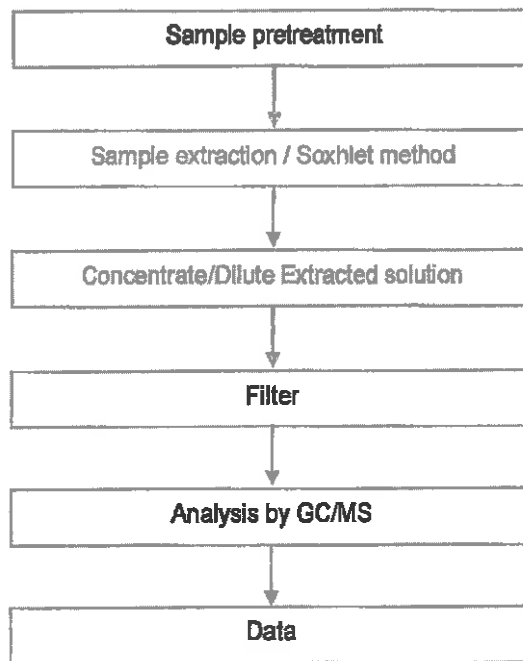
These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr<sup>6+</sup> test method excluded)



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### PBB/PBDE analytical FLOW CHART



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## Test Report

No. : KA/2020/42000

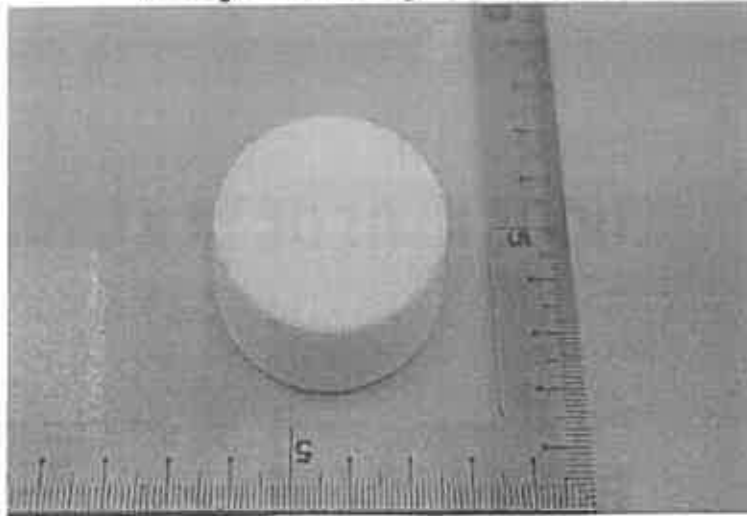
Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKU-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

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

### KA/2020/42000



\*\* End of Report \*\*

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## Test Report

No. : KA/2020/42032

Date : 2020/05/14


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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

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

Sample Submitted By : NITTO DENKO CORPORATION  
Sample Description : MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR  
Style/Item No. : NT-300 SERIES  
Sample Receiving Date : 2020/04/28  
Testing Period : 2020/04/28 to 2020/05/04

Test Requested : (1) As specified by client, with reference to RoHS 2011/65/EU Annex II and amending Directive (EU) 2015/863 to determine DBP, BBP, DEHP, DIBP contents in the submitted sample(s).  
(2) Please refer to next pages for the other item(s).  
Test Result(s) : Please refer to next page(s).

*Ray*  
Ray Chang P.H.D. / Manager  
Signed for and on behalf of  
SGS Taiwan Limited  
Chemical Laboratory-Kaohsiung  




PIN CODE: 9179E790

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# Test Report

No. : KA/2020/42032

Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

## Test Result(s)

PART NAME NO.1 : WHITE MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR

Test Item (s)	Unit	Method	MDL	Result
				No.1
<b>Phthalates</b>				
BBP (Butyl Benzyl phthalate) (CAS No.: 85-68-7)	mg/kg	With reference to IEC 62321-8:2017. Analysis was performed by GC/MS.	50	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	mg/kg		50	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	mg/kg		50	n.d.
DIDP (Di-isodecyl phthalate) (CAS No.: 26761-40-0; 68515-49-1)	mg/kg		50	n.d.
DINP (Di-isononyl phthalate) (CAS No.: 28553-12-0; 68515-48-0)	mg/kg		50	n.d.
DNOP (Di-n-octyl phthalate) (CAS No.: 117-84-0)	mg/kg		50	n.d.
DIBP (Di-isobutyl phthalate) (CAS No.: 84-69-5)	mg/kg		50	n.d.

## Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit

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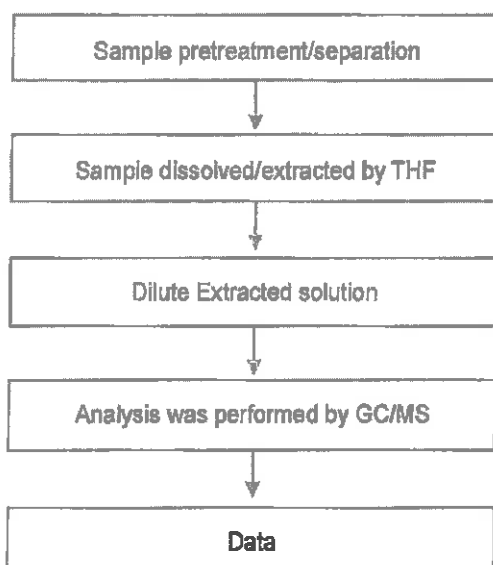
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NITTO DENKO CORPORATION

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### Analytical flow chart of phthalate content

**【Test method: IEC 62321-8】**

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## Test Report

No. : KA/2020/42032

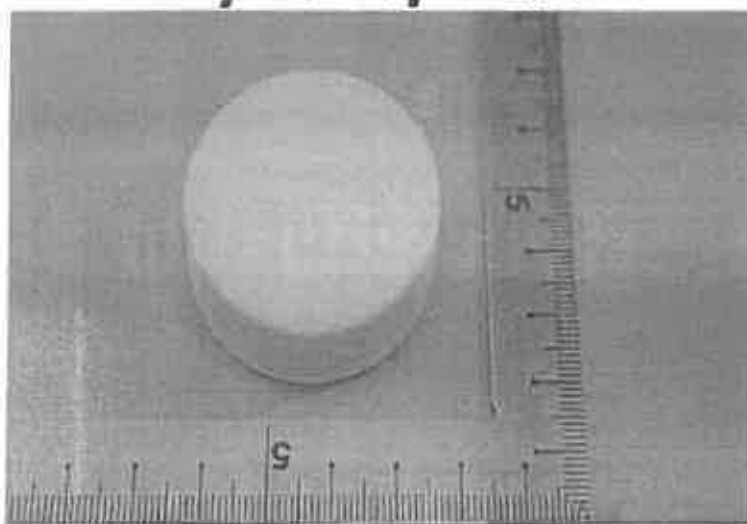
Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

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

### KA/2020/42032



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## Test Report

No. : KA/2020/42008

Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

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

Sample Submitted By : NITTO DENKO CORPORATION  
Sample Description : MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR  
Style/Item No. : NT-300 SERIES  
Sample Receiving Date : 2020/04/28  
Testing Period : 2020/04/28 to 2020/05/04

Test Requested : As specified by client, to test Halogen-Fluorine, Chlorine, Bromine, Iodine in the submitted sample(s).  
Test Result(s) : Please refer to next page(s).

*Ray Chang*  
Ray Chang P.H.D. / Manager  
Signed for and on behalf of  
SGS Taiwan Limited  
Chemical Laboratory-Technology



PIN CODE: 80571F65

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# Test Report

No. : KA/2020/42008

Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKU-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

## Test Result(s)

PART NAME NO.1 : WHITE MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR

Test Item (s)	Unit	Method	MDL	Result No.1
<b>Halogen</b>				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (Cl) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	515
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2016. Analysis was performed by IC.	50	n.d.

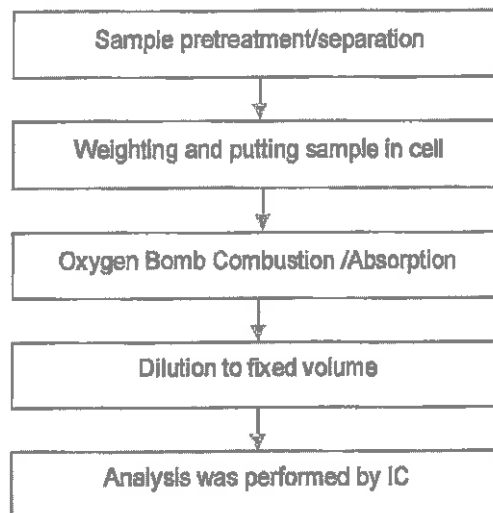
### Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. n.d. = Not Detected
3. MDL = Method Detection Limit

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NITTO DENKO CORPORATION  
919, FUKU-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

### Analytical flow chart of Halogen



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## Test Report

No. : KA/2020/42008

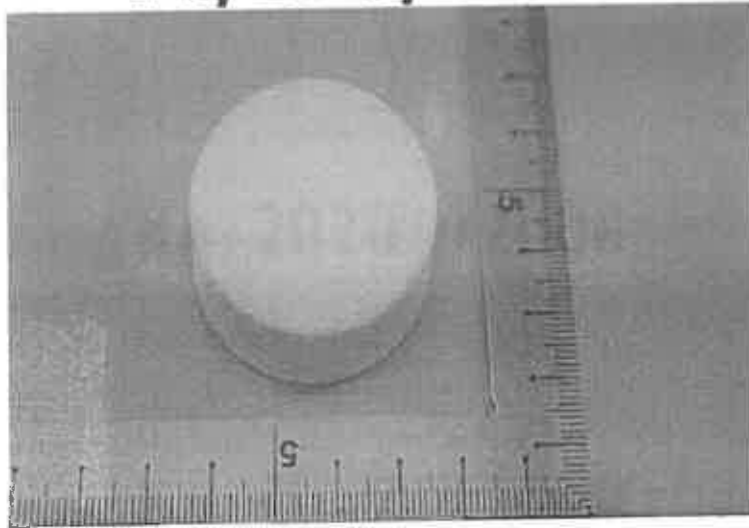
Date : 2020/05/14

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NITTO DENKO CORPORATION  
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### KA/2020/42008



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Signature valid  
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# Test Report

No. : KA/2020/42016

Date : 2020/05/14

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NITTO DENKO CORPORATION  
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Sample Submitted By : NITTO DENKO CORPORATION  
 Sample Description : MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR  
 Style/Item No. : NT-300 SERIES  
 Sample Receiving Date : 2020/04/28  
 Testing Period : 2020/04/28 to 2020/05/04

Test Result(s) : Please refer to next page(s).

*Ray*  
 Ray Chang P.P. / Manager  
 Signed for and on behalf of  
 SGS Taiwan Limited  
 Chemical Laboratory-Kaohsiung




PIN CODE: 9DBB34F8

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# Test Report

No. : KA/2020/42016

Date : 2020/05/14

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NITTO DENKO CORPORATION  
919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

## Test Result(s)

PART NAME NO.1 : WHITE MOLDING COMPOUND FOR OPTICAL SEMICONDUCTOR

Test Item (s)	Unit	Method	MDL	Result
				No.1
Antimony (Sb)	mg/kg	With reference to US EPA 3052: 1996. Analysis was performed by ICP-OES.	2	n.d.

### Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm
2. MDL = Method Detection Limit
3. n.d. = Not Detected

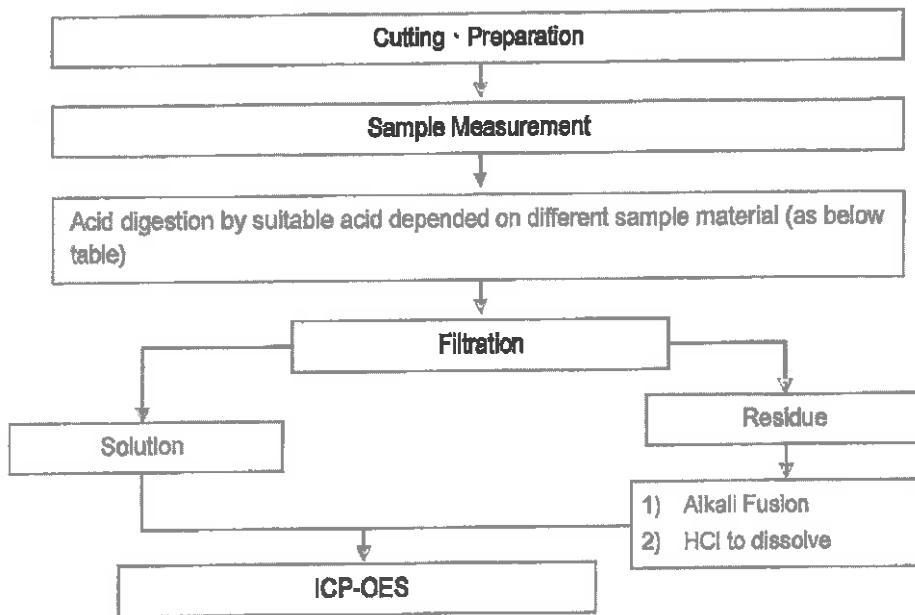
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No. 61, Keelung Rd., Nansh Export Processing Zone, Keelung, Taiwan / 高雄市新豐加工出口區開發路61號  
+886 (07) 3012121 / +886 (07) 3010897 www.sgs.com.tw

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 919, FUKE-CHO, KAMEYAMA, MIE, 519-0193, JAPAN

**Flow Chart of digestion for the elements analysis performed by ICP-OES**  
 These samples were dissolved totally by pre-conditioning method according to below flow chart.



Steel, copper, aluminum, solder	Aqua regia, HNO <sub>3</sub> , HCl, HF, H <sub>2</sub> O <sub>2</sub>
Glass	HNO <sub>3</sub> /HF
Gold, platinum, palladium, ceramic	Aqua regia
Silver	HNO <sub>3</sub>
Plastic	H <sub>2</sub> SO <sub>4</sub> , H <sub>2</sub> O <sub>2</sub> , HNO <sub>3</sub> , HCl
Others	Any acid to total digestion

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

### KA/2020/42016



\*\* End of Report \*\*

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No. 61, Kei-Fa Road, Nanzih Export Processing Zone, Keelung, Taiwan / 高雄市楠梓加工出口區開發路61號  
t+886 (07) 3012121 f+886 (07) 3010867 [www.sgs.com.tw](http://www.sgs.com.tw)

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TO : Carsem (M) Sdn Bhd

25 June , 2020

# Nitto

Innovation for Customers

**Nitto Denko Corporation**

16 HIRAYAMA, NAKAHARA TOYOHASHI

AICHI 441-3194, JAPAN

TEL +81 532-41-8461 FAX +81 532-43-1679

Quality Management Dept.

Functional Base Products Sector

## Certification of Non-use of Hazardous substances in Products

Product number

NT-332H-10000

We hereby guarantee that listed substances below are not intentionally used in the above-mentioned products.

Substances

1. Beryllium
2. PFOS
3. PFOA

Company : NITTO DENKO CORPORATION

Department : Quality Management Dept.  
Functional Base Products Sector

Responsible person : Ken Yamaguchi

Date : 25 June , 2020

Signature

: 