



**Test Report**

No. XMNML2000922301

Date: 16 Jul 2020

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XIAMEN BETALENT CARBIDE CO.,LTD

79-209 XINGGANG WULI, XIAMEN AREA, CHINA(FUJIAN) PILOT FREE TRADE ZONE 361024

The following sample(s) was/were submitted and identified on behalf of the clients as : Carbide rod

SGS Job No. : XMIN2007006196PC - XM

Material : Carbide grade BT50

Specification : 8\*330

Manufacturer : XIAMEN BETALENT CARBIDE CO.,LTD

Date of Sample Received : 13 Jul 2020

Testing Period : 13 Jul 2020 - 16 Jul 2020

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

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

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Signed for and on behalf of  
SGS-CSTC Standards Technical Services Co., Ltd. Xiamen Branch

*Rae chen*

Rae Chen  
Approved Signatory



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID    | Description                |
|--------------|------------------|----------------------------|
| SN1          | XMN20-009223.001 | Silver-grey surfaced metal |

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

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| Element                   | Unit               | Limit | Result |
|---------------------------|--------------------|-------|--------|
| Cadmium (Cd)              | mg/kg              | 100   | ND     |
| Mercury (Hg)              | mg/kg              | 1,000 | ND     |
| Lead (Pb)                 | mg/kg              | 1,000 | ND     |
| Sulfur hexafluoride (SF6) | µg/cm <sup>3</sup> | 1,000 | ND     |
| Sum of PBBs               | mg/kg              | 1,000 | ND     |
| Dibromobiphenyl           | mg/kg              | 5     | ND     |
| Tribromobiphenyl          | mg/kg              | 5     | ND     |
| Tetrabromobiphenyl        | mg/kg              | 5     | ND     |
| Pentabromobiphenyl        | mg/kg              | 5     | ND     |
| Hexabromobiphenyl         | mg/kg              | 5     | ND     |
| Heptabromobiphenyl        | mg/kg              | 5     | ND     |
| Octabromobiphenyl         | mg/kg              | 5     | ND     |
| Nonabromobiphenyl         | mg/kg              | 5     | ND     |
| Decabromobiphenyl         | mg/kg              | 5     | ND     |
| Sum of PBDEs              | mg/kg              | 1,000 | ND     |
| Monobromodiphenyl ether   | mg/kg              | 5     | ND     |
| Dibromodiphenyl ether     | mg/kg              | 5     | ND     |
| Tribromodiphenyl ether    | mg/kg              | 5     | ND     |
| Tetrabromodiphenyl ether  | mg/kg              | 5     | ND     |
| Pentabromodiphenyl ether  | mg/kg              | 5     | ND     |



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| Test Item(s)                        | Limit | Unit  | MDL | 001 |
|-------------------------------------|-------|-------|-----|-----|
| Hexabromodiphenyl ether             | -     | mg/kg | 5   | ND  |
| Heptabromodiphenyl ether            | -     | mg/kg | 5   | ND  |
| Octabromodiphenyl ether             | -     | mg/kg | 5   | ND  |
| Nonabromodiphenyl ether             | -     | mg/kg | 5   | ND  |
| Decabromodiphenyl ether             | -     | mg/kg | 5   | ND  |
| Dibutyl phthalate (DBP)             | 1000  | mg/kg | 50  | ND  |
| Butyl benzyl phthalate (BBP)        | 1000  | mg/kg | 50  | ND  |
| Bis (2-ethylhexyl) phthalate (DEHP) | 1000  | mg/kg | 50  | ND  |
| Diisobutyl Phthalates (DIBP)        | 1000  | mg/kg | 50  | ND  |

Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863. IEC 62321 series is equivalent to EN 62321 series  
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(2) \* = a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm<sup>2</sup>. The sample coating is considered to contain CrVI  
 b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10 µg/cm<sup>2</sup>). The result between 0.10 µg/cm<sup>2</sup> and 0.13 µg/cm<sup>2</sup> is considered to be inconclusive -

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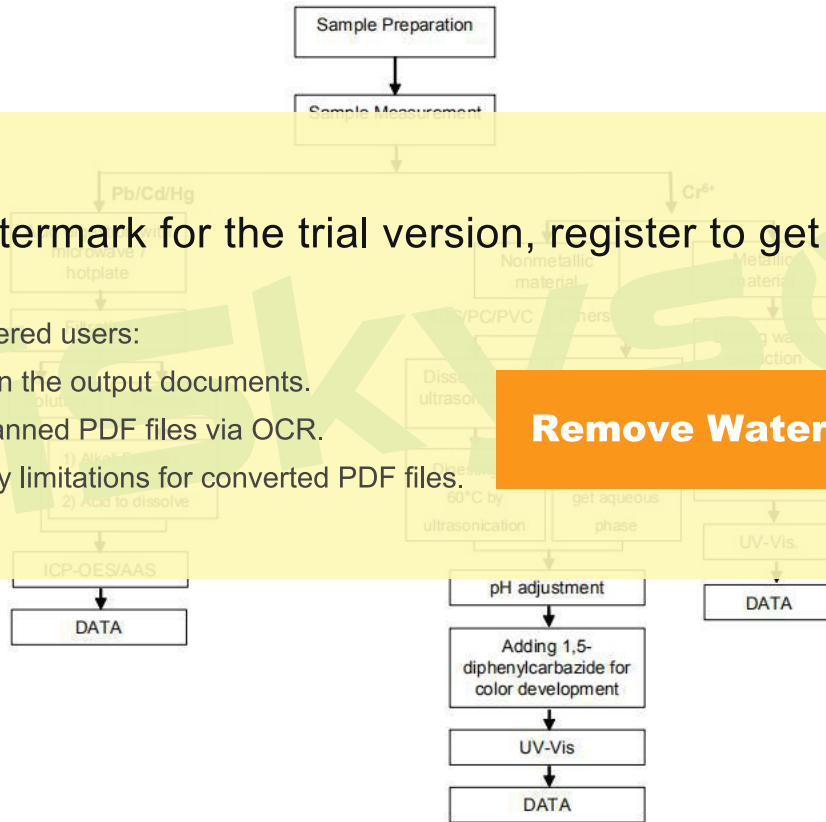
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Pb/Cd/Hg/Cr<sup>6+</sup> Testing Flow Chart

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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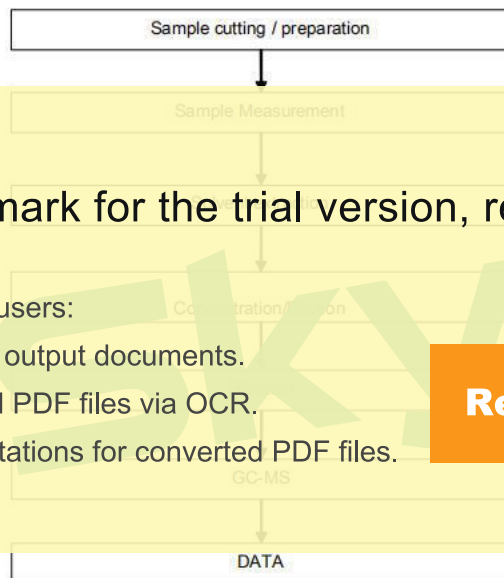
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PBBs / PBDEs Testing Flow Chart



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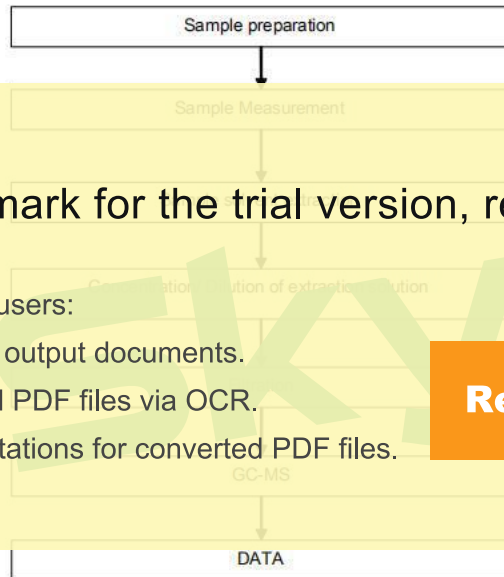
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Phthalates Testing Flow Chart



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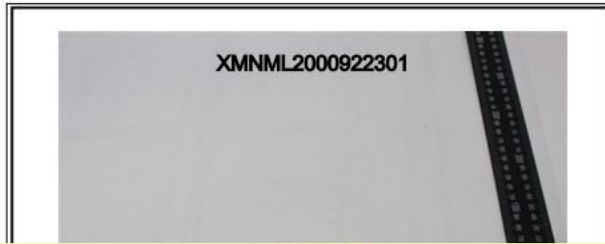
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