# Test Report



| | | |
|---|---|---|
| **Applicant** | : | NINGBO BIDA MACHINERY MANUFACTURE CO., LTD. |
| **Address** | : | NO.25, NANDU ROAD,JIANGKOU STREET,FENGHUA,DISTRICT, NINGBO CITY,ZHEJIANG PROVINCE |
| **Manufacturer** | : | NINGBO BIDA MACHINERY MANUFACTURE CO., LTD. |
| **Address** | : | NO.25, NANDU ROAD,JIANGKOU STREET,FENGHUA,DISTRICT, NINGBO CITY,ZHEJIANG PROVINCE |

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

| | | |
|---|---|---|
| **Sample Name** | : | AIR COMPRESSOR |
| **Trade Name** | : | FENGDA |
| **Model** | : | AS-186 |
| **Serial model No.** | : | AS18-、AS18-2、AS-186A、AS-196A、AS-189、AS-196、AS-176、AS06-1、AS-18A、LS18-2S、LS-186S、AG-420、AG-420B、AG-426、AG-320、AG-326、AS-600、AS-626. |
| **Sample Received Date** | : | Apr.30,2023 to May. 12,2023 |
| **Testing Period** | : | May. 12,2023 |
| **Test Requested** | : | Selected test (s) in the selected partsasrequestedbyclientwiththeRoHS 2.0 Directive 2011/65/EU Annex II (EU) 2015/863 as last amendedby Directive (EU) 2017/2102. |
| **Test Method** | : | Please refer to next page(s). |
| **Test Result** | : | Please refer to next page(s). |

**Signed for and on behalf of**

DONGGUAN BST TECHNOLOGY CO.,LTD. APPROVED

**Richard luo/ Approved Signatory**

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**Test Content:**

| Test Item(s) | Test Method | Reference | Unit | Limit | MDL |
|---|---|---|---|---|---|
| Cadmium(Cd) | IEC 62321-5:2013 | ICP-OES | mg/kg | 100 | 2 |
| Lead(Pb) | IEC 62321-5:2013 | ICP-OES | mg/kg | 1000 | 2 |
| Mercury(Hg) | IEC 62321-4:2013+AMD1:2017 | ICP-OES | mg/kg | 1000 | 2 |
| Hexavalent Chromium(CrVI) (Metal) | IEC 62321-7-1:2015 | UV-Vis | $\mu g/cm^2$ | 0.13 | 0.1 |
| Hexavalent Chromium(CrVI) (Nonmetal) | IEC 62321-7-2:2017 | UV-Vis | mg/kg | 1000 | 8 |
| PBBs (Next form) | IEC 62321-6:2015 | GC-MS | mg/kg | 1000 | 5 |
| PBDEs (Next form) | IEC 62321-6:2015 | GC-MS | mg/kg | 1000 | 5 |
| Dibutyl Phthalate(DBP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |
| Butyl benzyl phthalate (BBP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |
| Di-(2-ethylhexyl) Phthalate(DEHP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |
| Diisobutyl phthalate (DIBP) | IEC 62321-8:2017 | GC-MS | mg/kg | 1000 | 30 |

| PBBs | | PBDEs | |
|---|---|---|---|
| Monobromobiphenyl | Hexabromobiphenyl | Monobromodiphenyl ether | Hexabromodiphenyl ether |
| Dibromobiphenyl | Heptabromobiphenyl | Dibromodiphenyl ether | Heptabromodiphenyl ether |
| Tribromobiphenyl | Octabromobiphenyl | Tribromodiphenyl ether | Octabromodiphenyl ether |
| Tetrabromobiphenyl | Nonabromobiphenyl | Tetrabromodiphenyl ether | Nonabromodiphenyl ether |
| Pentabromobiphenyl | Febabromobiphenyl | Pentabromodiphenyl ether | Febabromodiphenyl ether |

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**Sample Description：**

| No. | Description | Name |
|---|---|---|
| 1. | metal | Metal Plug(Power Cord） |
| 2. | plastic | Plug Plastic(Power Cord） |
| 3. | metal | Metal Shrapnel(Power Cord） |
| 4. | plastic | Black Line Skin Outside(Power Cord） |
| 5. | plastic | Green Line Skin(Power Cord） |
| 6. | plastic | Blue Line Skin(Power Cord） |
| 7. | plastic | Brown Line Skin(Power Cord） |
| 8. | metal | Wire Core(Power Cord） |
| 9. | Gel Set | Silica Gel Set(Terminal） |
| 10. | metal | Sheet Metal(Terminal） |
| 11. | plastic | White Plastic(Wiring cap) |
| 12. | metal | Sheet Metal(Wiring cap) |
| 13. | metal | Binding Wire |
| 14. | metal | O-Rings |
| 15. | Nylon | Red Nylon Line |
| 16. | Nylon | Blue Nylon Line |
| 17. | Nylon | White Nylon Line |
| 18. | plastic | Yellow Line Skin |
| 19. | plastic | Red Line Skin |
| 20. | plastic | Black Line Skin |
| 21. | metal | Screw |
| 22. | plastic | Green Plastic |
| 23. | metal | MATS |
| 24. | metal | Metal Case |
| 25. | metal | Start The Capacitance |
| 26. | plastic | Red Plastic(Ship Type Switch) |
| 27. | plastic | Black Plastic(Ship Type Switch) |
| 28. | metal | Sheet Metal(Ship Type Switch） |
| 29. | metal | Pressure Switch |
| 30. | Glass | Glass(Barometer) |
| 31. | metal | Metal Case(Barometer) |
| 32. | plastic | Dial(Barometer) |
| 33. | metal | Copper Wire (Barometer) |
| 34. | plastic | Clear Plastic (Drainer) |
| 35. | plastic | White Plastic (Drainer) |
| 36. | Metal | Spring (Drainer) |
| 37. | Metal | Metal Plug (Drainer) |
| 38. | plastic | Red Plastic(Regulator) |
| 39. | plastic | Black Plastic(Regulator) |

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| | | |
|---|---|---|
| 40. | Metal | Copper Wire (Motor) |
| 41. | Metal | Iron Core (Motor) |
| 42. | Metal | White Cotton (Motor) |
| 43. | Metal | Roller (Motor) |
| 44. | Metal | Eccentric (Motor) |
| 45. | plastic | Piston(Air Pump) |
| 46. | Metal | Metal Connecting Rod(Air Pump) |
| 47. | Silicone | Silicone Seal(Air Pump) |

**Test Results:**

| Test Item(s) | No.1 | No.2 | No.3 | No.4 | No.5 | No.6 |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | -- | N.D. | -- | N.D. | N.D. | N.D. |
| PBDEs | -- | N.D. | -- | N.D. | N.D. | N.D. |
| Dibutyl Phthalate (DBP) | -- | N.D. | -- | N.D. | N.D. | N.D. |
| Butyl benzyl phthalate (BBP) | -- | N.D. | -- | N.D. | N.D. | N.D. |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | N.D. | -- | N.D. | N.D. | N.D. |
| Diisobutyl phthalate (DIBP) | -- | N.D. | -- | N.D. | N.D. | N.D. |

| Test Item(s) | No.7 | No.8 | No.9 | No.10 | No.11 | No.12 |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | -- | N.D. | N.D. | -- | N.D. | -- |
| PBDEs | -- | N.D. | N.D. | -- | N.D. | -- |
| Dibutyl Phthalate (DBP) | -- | N.D. | N.D. | -- | N.D. | -- |
| Butyl benzyl phthalate (BBP) | -- | N.D. | N.D. | -- | N.D. | -- |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | N.D. | N.D. | -- | N.D. | -- |

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|---|---|---|---|---|---|---|
| Diisobutyl phthalate (DIBP) | -- | N.D. | N.D. | -- | N.D. | -- |

| Test Item(s) | No.13 | No.14 | No.15 | No.16 | No.17 | No.18 |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | -- | -- | N.D. | N.D. | N.D. | N.D. |
| PBDEs | -- | -- | N.D. | N.D. | N.D. | N.D. |
| Dibutyl Phthalate (DBP) | -- | -- | N.D. | N.D. | N.D. | N.D. |
| Butyl benzyl phthalate (BBP) | -- | -- | N.D. | N.D. | N.D. | N.D. |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | -- | N.D. | N.D. | N.D. | N.D. |
| Diisobutyl phthalate (DIBP) | -- | -- | N.D. | N.D. | N.D. | N.D. |

| Test Item(s) | No.19 | No.20 | No.21 | No.22 | No.23 | No.24 |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | N.D. | N.D. | -- | N.D. | -- | -- |
| PBDEs | N.D. | N.D. | -- | N.D. | -- | -- |
| Dibutyl Phthalate (DBP) | N.D. | N.D. | -- | N.D. | -- | -- |
| Butyl benzyl phthalate (BBP) | N.D. | N.D. | -- | N.D. | -- | -- |
| Di-(2-ethylhexyl)Phthalate(DEHP) | N.D. | N.D. | -- | N.D. | -- | -- |
| Diisobutyl phthalate (DIBP) | N.D. | N.D. | -- | N.D. | -- | -- |

| Test Item(s) | No.25 | No.26 | No.27 | No.28 | No.29 | No.30 |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |

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| | | | | | | |
|---|---|---|---|---|---|---|
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | -- | N.D. | N.D. | -- | -- | N.D. |
| PBDEs | -- | N.D. | N.D. | -- | -- | N.D. |
| Dibutyl Phthalate (DBP) | -- | N.D. | N.D. | -- | -- | N.D. |
| Butyl benzyl phthalate (BBP) | -- | N.D. | N.D. | -- | -- | N.D. |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | N.D. | N.D. | -- | -- | N.D. |
| Diisobutyl phthalate (DIBP) | -- | N.D. | N.D. | -- | -- | N.D. |

| **Test Item(s)** | **No.31** | **No.32** | **No.33** | **No.34** | **No.35** | **No.36** |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | -- | N.D. | -- | N.D. | N.D. | -- |
| PBDEs | -- | N.D. | -- | N.D. | N.D. | -- |
| Dibutyl Phthalate (DBP) | -- | N.D. | -- | N.D. | N.D. | -- |
| Butyl benzyl phthalate (BBP) | -- | N.D. | -- | N.D. | N.D. | -- |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | N.D. | -- | N.D. | N.D. | -- |
| Diisobutyl phthalate (DIBP) | -- | N.D. | -- | N.D. | N.D. | -- |

| **Test Item(s)** | **No.37** | **No.38** | **No.39** | **No.40** | **No.41** | **No.42** |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | N.D. |
| PBBs | -- | N.D. | N.D. | -- | -- | -- |
| PBDEs | -- | N.D. | N.D. | -- | -- | -- |

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| | | | | | | |
|---|---|---|---|---|---|---|
| Dibutyl Phthalate (DBP) | -- | N.D. | N.D. | -- | -- | -- |
| Butyl benzyl phthalate (BBP) | -- | N.D. | N.D. | -- | -- | -- |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | N.D. | N.D. | -- | -- | -- |
| Diisobutyl phthalate (DIBP) | -- | N.D. | N.D. | -- | -- | -- |

| **Test Item(s)** | **No.43** | **No.44** | **No.45** | **No.46** | **No.47** | |
|---|---|---|---|---|---|---|
| Cadmium (Cd) | N.D. | N.D. | N.D. | N.D. | N.D. | -- |
| Lead (Pb) | N.D. | N.D. | N.D. | N.D. | N.D. | -- |
| Mercury (Hg) | N.D. | N.D. | N.D. | N.D. | N.D. | -- |
| Hexavalent Chrormium (CrVI) | N.D. | N.D. | N.D. | N.D. | N.D. | -- |
| PBBs | -- | -- | N.D. | -- | N.D. | -- |
| PBDEs | -- | -- | N.D. | -- | N.D. | -- |
| Dibutyl Phthalate (DBP) | -- | -- | N.D. | -- | N.D. | -- |
| Butyl benzyl phthalate (BBP) | -- | -- | N.D. | -- | N.D. | -- |
| Di-(2-ethylhexyl)Phthalate(DEHP) | -- | -- | N.D. | -- | N.D. | -- |
| Diisobutyl phthalate (DIBP) | -- | -- | N.D. | -- | N.D. | -- |

**Note**：

1. mg/kg= ppm
2. N.D.= Not Detected(<MDL)
3. MDL = Method Detection Limit
4. -- = No Testing
5. when Cr(VI) in a sample is detected below the 0.10 μg/cm$^2$ LOQ (limit of quantification), the sample is considered to be negative for Cr(VI). Since Cr(VI) Feb not be uniformly distributed in the coating even within the same sample batch, a "grey zone" between 0.10 μg/cm$^2$ and 0.13 μg/cm$^2$ has been established as "inconclusive" to reduce inconsistent results due to unavoidable coating variations. In this case, additional testing Feb be necessary to confirm the presence of Cr(VI). When Cr(VI) is detected above 0.13 μg/cm$^2$, the sample is considered to be positive for the presence of Cr(VI) in the coating layer. unavoidable coating variations Feb influence the determination Information on storage conditions and production date of the tested sample is unavailable and thus Cr(VI) results represent status of the sample at the time of testing.

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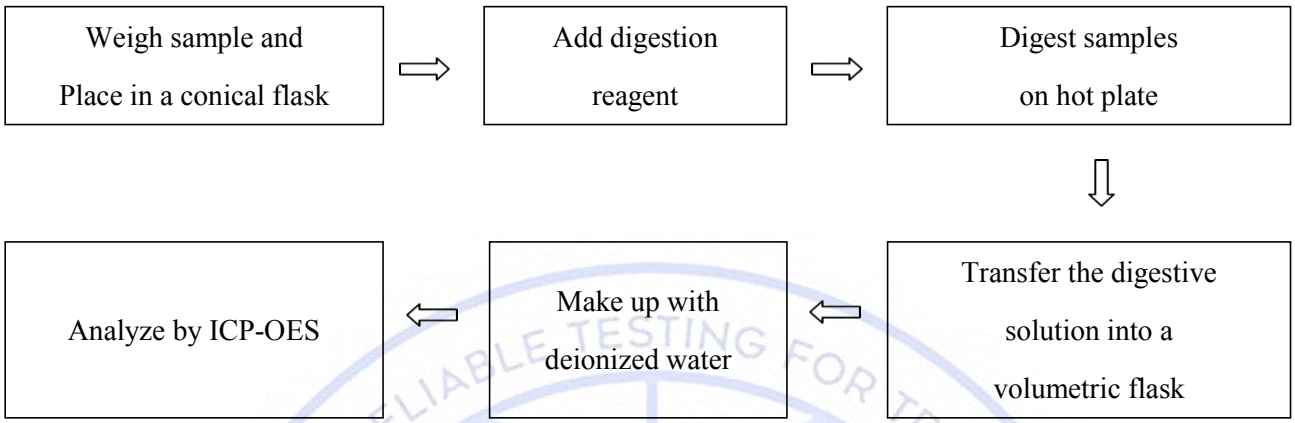
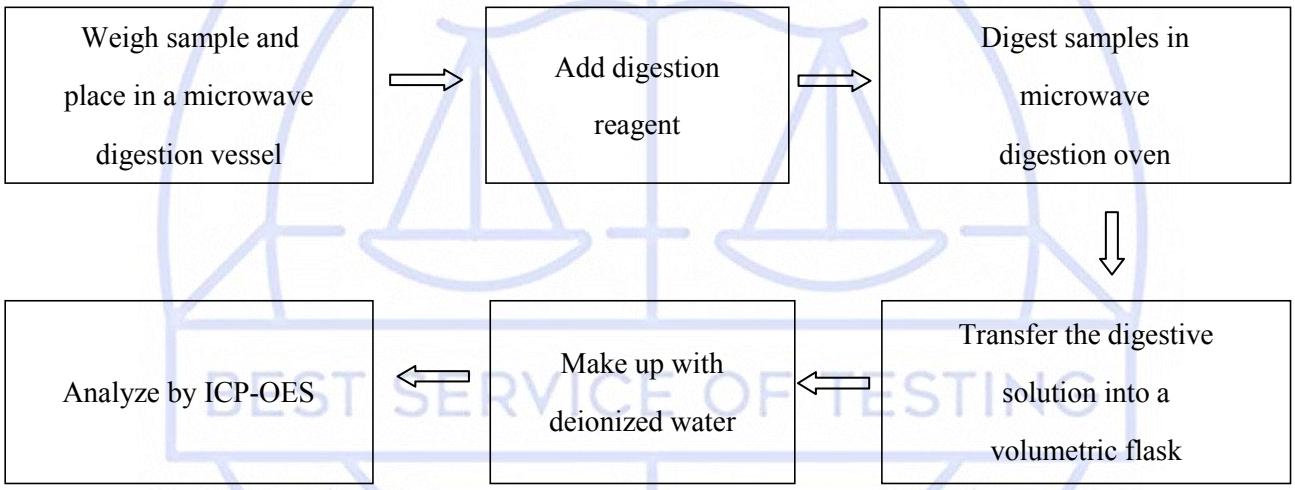
**Test Process:**

1. Test for Cd/Pb Content




2. Test for Hg Content

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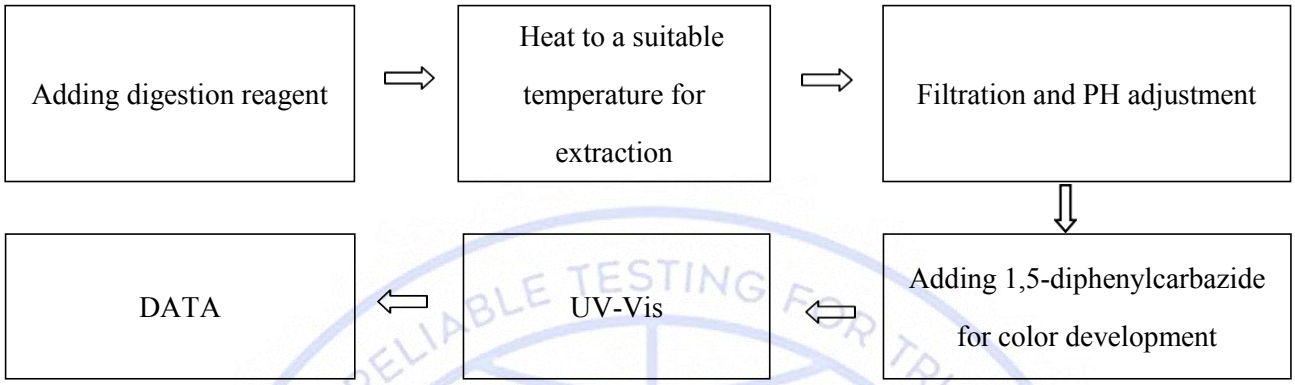
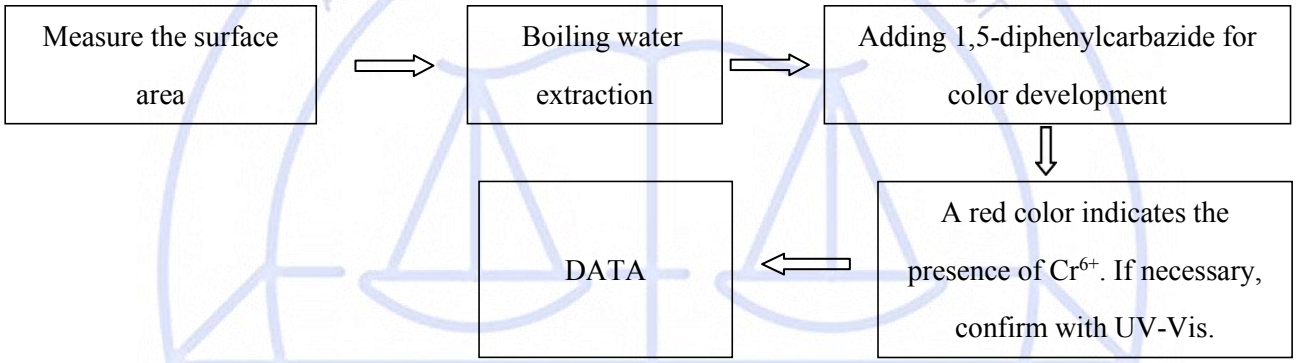
3. Test for Chromium (VI)

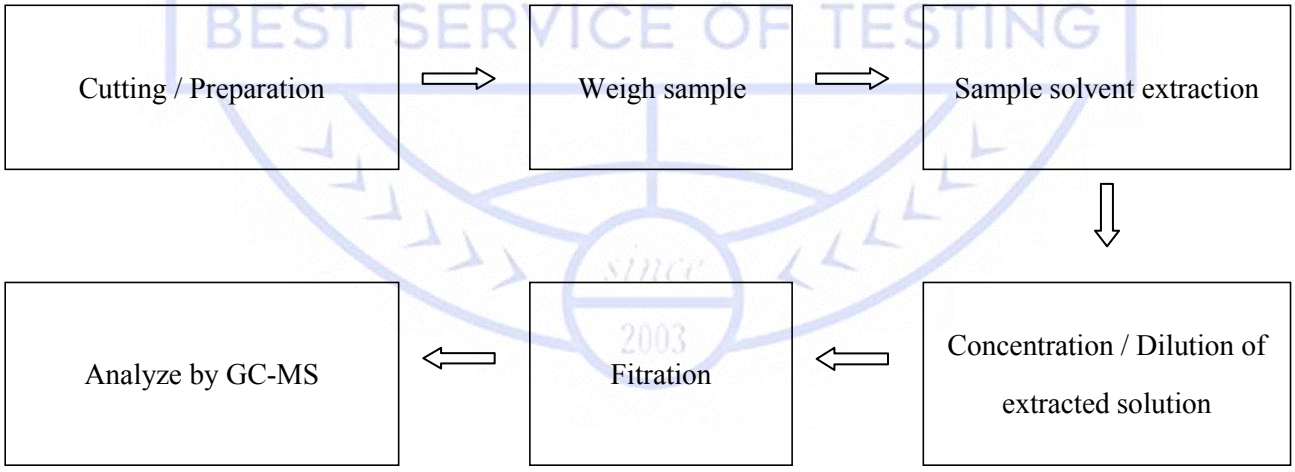
Content Nonmetal material




Metal material




4.Test for DBP, BBP, DEHP, DIBP, PBB, PBDE Content

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**Sample Photo 1:**

**Sample Photo 2**

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**Sample Photo 3**

**Sample Photo 4**

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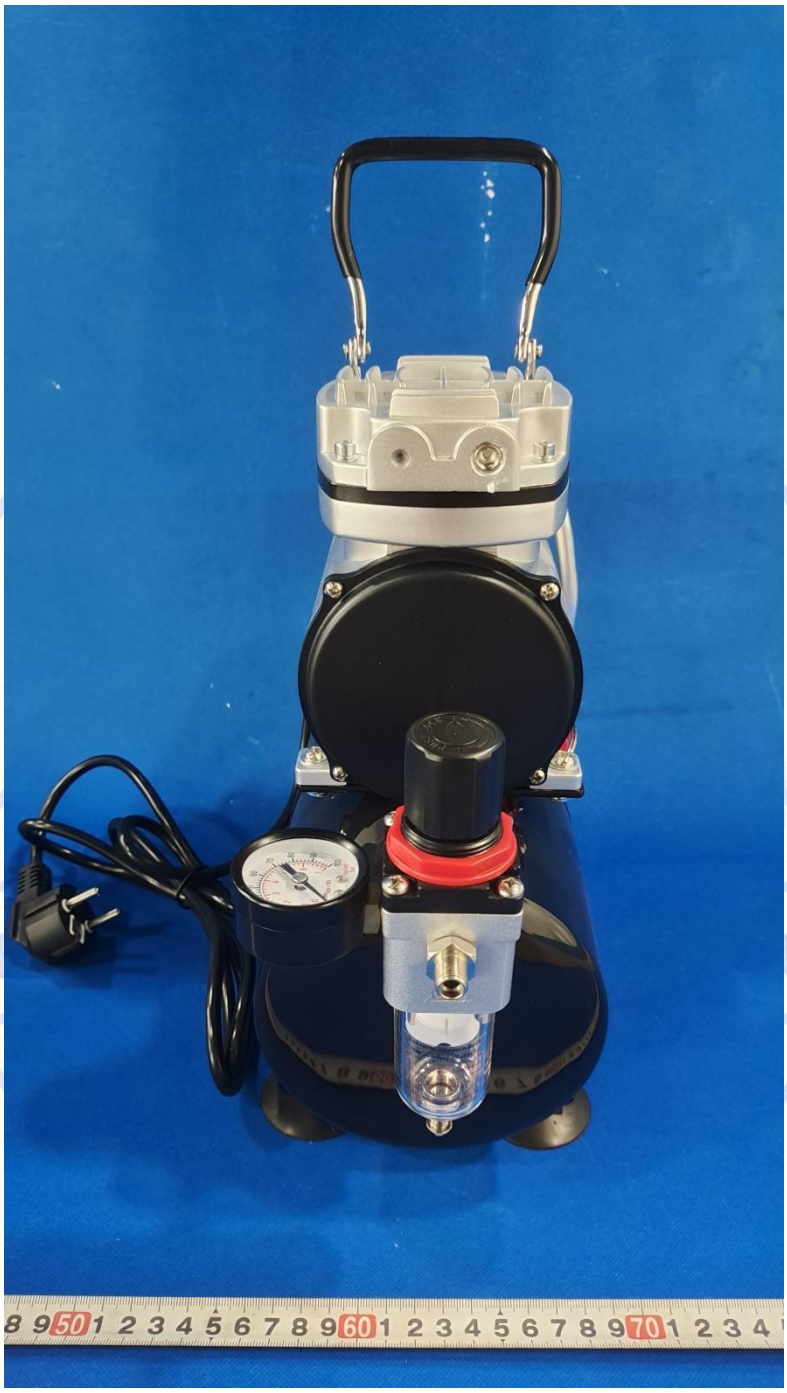
**Sample Photo 5**



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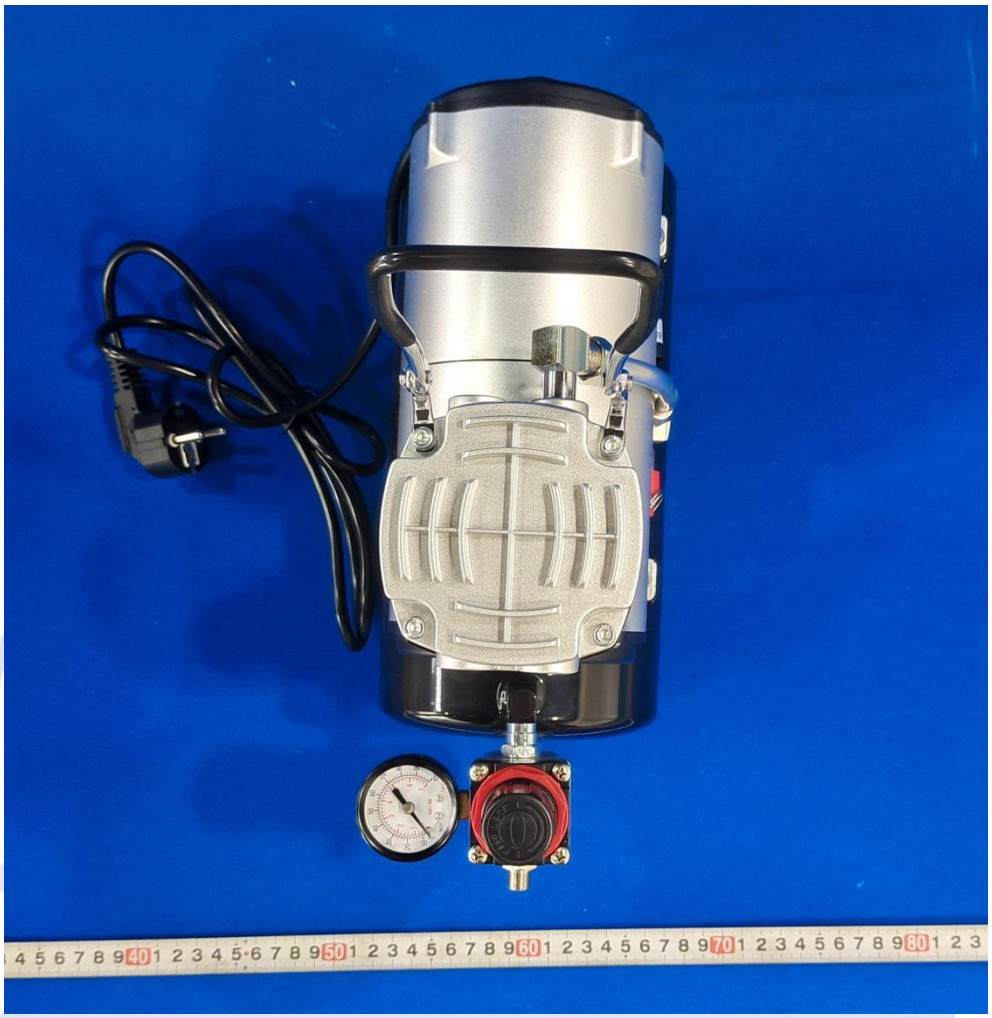
**Sample Photo 6**



***** End of Report *****

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