



## Advanced Material & Metal Compounds

### □ Beryllium

**Beryllium** is a quite rare metal, beryllium-based copper alloy is excellent elastic material with great strength, hardness, fatigue resistance, corrosive resistance, wear resistance, and great electric conductive ability.



No.	Item	Standard Specification							
1	Beryllium	Purity	Impurities PCT Max each						
2	Chemical	Be	Fe	Al	Si	Mg	Mn	Other	
		≥98.0%	0.30	0.02	0.05	0.005	0.02	0.03	
3	Size	Disc	D(1-50)×(0.1-0.5) mm, D(1-100)×(0.5-2.0) mm,						
		Square	(1-150)×(1-80)×(0.1-0.5) mm, (1-200)×(1-100)×(0.5-2.0) mm, (1-300)×(1-150)×(2.0-3.0) mm						
4	Packing	2kgs in composite bag with iron drum outside, 25kgs net							

### □ Bismuth

**Bismuth** is odorless silver or reddish color metal, with melting point 271.3°C and boiling point 1420°C. It is mainly used in the manufacturing of compound semi-conductor materials, bismuth oxides, low melting point alloy, thermoelectric converting elements, electronic cooling elements, and liquid carrier for the cooling in the atomic reactor etc.



No.	Item	Standard Specification						
1	Bismuth	Purity	Impurities PCT Max each					
2	Chemical	Bi	Ag	Cl	As/Te	Zn/Sb	Cu/Pb/Fe	
		≥99.99%	0.004	0.0015	0.0003	0.0005	0.001	
3	Size	15kgs±1kg Ingot or irregular lump						
4	Packing	In plywood case						

### □ Cadmium

**Cadmium**, a shiny silver-white metal with melting point 320.9°C and boiling point 765°C, is of great malleability and oxidizing in moist air slowly. It is primarily used in the industries of alloys, electricity, electroplating, battery solder and can be made atomic reactors to absorb neutrons stick, manufacturing of II-VI compound semiconductor etc.



No.	Item	Standard Specification					
1	Cadmium	Purity	Impurities PCT Max each				
2	Chemical	Cd	Cu	Pb	Sb	Zn/Fe/As/Sn/Tl	
		≥99.99%	0.003	0.004	0.0015	0.002	
3	Size	15kgs±1kg Ingot or irregular lump					
4	Packing	In plywood case					

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