

## B-26-D BERYLLIUM VACUUM CASTINGS, LUMP AND CHIPS

Effective: November 06, 2014

Rev. B

### 1. SCOPE

- 1.1. This specification defines the requirements for a material produced by vacuum melting and casting designated as B-26-D.

### 2. CHEMICAL COMPOSITION

- 2.1. The chemical composition shall conform to the following:

#### Element

Beryllium Assay, % min.	99.0
Beryllium Oxide, % max.	0.50
Aluminum, % max.	0.09
Boron, % max.	0.0002
Cadmium, % max.	0.0002
Calcium, % max.	0.02
Carbon, % max.	0.10
Chromium, % max.	0.01
Cobalt, % max.	0.0010
Copper, % max.	0.01
Iron, % max.	0.10
Lead, % max.	0.002
Lithium, % max.	0.0003
Magnesium, % max.	0.08
Manganese, % max.	0.015
Molybdenum, % max.	0.002
Nickel, % max.	0.03
Nitrogen, % max.	0.03
Silicon, % max.	0.06
Silver, % max.	0.0005
Zinc, % max.	0.02

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### 3.PRODUCT FORMS

- 3.1. Billets are supplied in cylindrical form with surface cleaned to remove impurities.
- 3.2. Lump is irregularly shaped pieces approximately .125" to 1.5" in dimension with some fines.
- 3.3. Chips are approximately .040" x .125" x .005" thick. It should be noted, however, that the BeO content will be higher than the above two forms.

### 4.CERTIFICATION

- 4.1. Certification of compliance with this specification will be furnished upon request. When requested, actual test results will be certified. Testing in accordance with the individual customer's instructions will be performed if mutually acceptable, and actual test results will be certified.

### 5.PACKAGING

- 5.1. The method of packaging, labeling and shipping will be in accordance with the applicable government regulations. Special packaging will be provided when mutually acceptable and in accordance with government regulations. Each container will be legibly marked with the following minimum information:

Purchase Order Number

Material Specification Number

Material Lot Number

Gross, Net and Tare Weights

### 6. SAFETY / ENVIRONMENTAL

- 6.1 Handling Beryllium Containing Material in solid form poses no special health risk. Like many industrial materials, beryllium-containing materials may pose a health risk if recommended safe handling practices are not followed. Inhalation of airborne beryllium may cause a serious lung disorder in susceptible individuals. The Occupational Safety and Health Administration (OSHA) has set mandatory limits on occupational respiratory exposures. Read and follow the guidance in the Material Safety Data Sheet (MSDS) before working with this material. For additional information on safe handling practices or technical data on Beryllium Containing Material, contact Materion Beryllium & Composites, EH&S Product Steward @ 216-383-4040

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