

PRODUCT DATA SHEET

## Sodium Beta Alumina Powder

MSRI produces sodium beta alumina powder with various compositions and features.

Beta alumina powders can be produced for customer's special need/specifications.

### Typical Product Applications:

- Sodium-sulfur (NaS) battery
- Sodium metal halide (Na-[M]Cl<sub>x</sub>) battery
- Thermoelectric converter
- Electrochemical sensor elements

### List of Products

Item No.	Description	Particle size
Standard beta alumina powder		
B2C	Standard beta alumina powder	Sub-micron (crystallite)
B2C-SD-S	Spherical beta alumina powder – fine	<20 μm (agglomerate)
B2C-SD-M	Spherical beta alumina powder – medium	20-45 μm (agglomerate)
B2C-SD-L	Spherical beta alumina powder – Large	45-75 μm (agglomerate)
Beta alumina powder with enhanced sinterability		
B2NC	Sinterable beta alumina powder	Sub-micron (crystallite)
B2NC-SD-S	Spherical sinterable powder – fine	<20 μm (agglomerate)
B2NC-SD-M	Spherical sinterable powder – medium	20-45 μm (agglomerate)
B2NC-SD-L	Spherical sinertable powder – Large	45-75 μm (agglomerate)

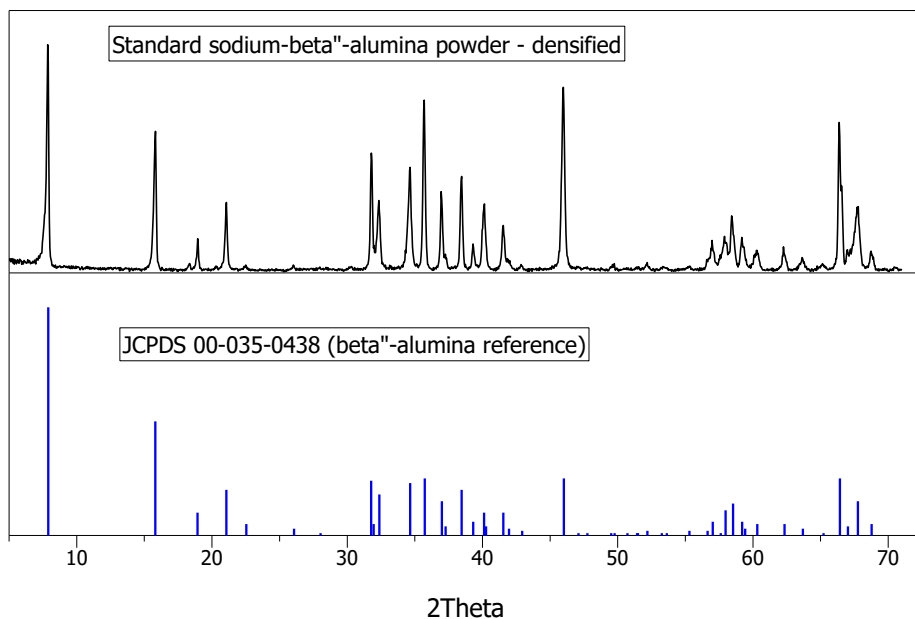
All these powders are also available in further densified forms of the same particle sizes.

**Composition (standard)**

- Aluminum (Al) = 46.0%
- Sodium (Na) = 6.3%
- Magnesium (Mg) = 2.7%
- Oxygen (O) = Balance  
(all in weight percent)

**Material Phase**

Pure beta"-alumina phase  
(based on XRD)

**Contact Us for Further Information**

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