



B90

Amorphous Elemental Boron 88-92% typical B

Rose Mill Company is an ISO 9001:2015 certified mineral processing company that provides amorphous elemental boron and metal boride powders for use in air bag manufacturing, military and defense products, metallurgy, welding applications, semiconductors and magnets.

B90 powder meets MIL-B-51092 and is available in small and large quantities. Rose Mill provides other grades of boron powder as well as refined borates such as boric acid and borax pentahydrate.

Product Analysis

B90 (boron 90%) CAS 7440-42-8

| <u>Typical Analysis</u> | <u>Specification</u> | <u>Typical Result</u> |
|-------------------------------|----------------------|-----------------------|
| B | 88.0% min. | 90.3% |
| Mg | 7.0% max. | 5.8% |
| B ₂ O ₃ | 0.5% max. | 0.2% |
| O | 1.5% max. | 1.2% |
| N | 0.3% max. | 0.2% |
| H ₂ O Insoluble | 1.0% max. | 0.4% |
| Fe | 0.1% max. | <0.1% |

| | |
|---------------------|--|
| particle size (d50) | 1.0 <i>um</i> |
| melting | 3769° F (2076° C) |
| density | 146 lb/ft ³ (2.34 g/cm ³) |



Availability

- 10 g "sample" size
- 100 g
- 25 kg
- Custom Bulk Sizes