

GRAYSTAR LLC

A Manufacturer and Distributor of
Abrasive Materials and Specialty Products

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Technical Data Sheet

Product: Alumina Grinding Media & Lining Brick

Description: Alumina Grinding Media is a grinding body used in ball mill, pot mill, librating mill and other fine breaking plants. It has advantages of high hardness, high volumetric density and anticorrosion. With a smashing efficiency and scuff-resistance much better than that of common ball-stone or natural cobblestone, it is widely used in ceramics, glass, porcelain enamel, pigment, chemicals and other trades.

Chemical Analysis & Physical Characteristics:

| Items | 65 Series | 92 Series | 95 Series |
|---|--------------------|----------------|----------------|
| Content of Al ₂ O ₃ (%) | ≥65 | ≥92 | ≥95 |
| Color | Cream white | White | White |
| Bulk Density (g/cm ³) | ≥3.0 | ≥3.6 | ≥3.65 |
| Water Absorption (%) | ≤0.03 | ≤0.02 | ≤0.02 |
| Moh's Hardness | ≥7 | ≥9 | ≥9 |
| Wear Resistance (24h ‰) | ≤0.3 | ≤0.15 | ≤0.15 |
| Available Diameters (mm) | 30, 40, 50, 60 | 30, 40, 50, 60 | 30, 40, 50, 60 |
| Thickness of Lining Brick (mm) | 50, 60, 70, 80, 90 | | |

Available Size Ranges:

| Product | Diameter(mm) | Tolerance | Remark |
|------------------------|----------------|-----------|--------|
| Alumina Grinding Ball | 30, 40, 50, 60 | +/-2mm | |
| Alumina Grinding Beads | 2 up to 15 | +/-0.5mm | |
| | 15 up to 25 | +/-1.0mm | |

Alumina Lining Bricks: Refer to Page 2 for a Full Listing of Dimensions & Tolerances

Packaging & Shipping:

1 MT (2,200 lb) or 500 kg (1,100 lb) Supersacks
25 kg Plastic Bags

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Alumina Lining Brick Dimensions and Tolerances

| Type | Length (mm) | Width 1 (mm) | Width 2 (mm) | Thickness (mm) |
|-----------------------------|-------------|--------------|--------------|-------------------------------|
| <u>Rectangle Brick</u> | 150 +/- 2 | 50 +/- 1 | 50 +/- 1 | 50, 60, 70, 80, 90 (+/- 1) |
| <u>Trapezium Brick</u> | 150 +/- 2 | 50 +/- 1 | 45 +/- 1 | 50, 60, 70, 80, 90 (+/- 1) |
| <u>Half Rectangle Brick</u> | 75 +/- 1 | 50 +/- 1 | 50 +/- 1 | 50, 60, 70, 80, 90 (+/- 1) |
| <u>Half Trapezium Brick</u> | 75 +/- 1 | 50 +/- 1 | 45 +/- 1 | 50, 60, 70, 80, 90 (+/- 1) |
| <u>Thin Brick</u> | 150 +/- 2 | 25 +/- 1 | 22.5 +/- 1 | 50, 60, 70, 80, 90 (+/- 1) |