

# KORUNDAL® BOND



## Product Data

01/09: 2264

Description: High-Alumina, Air-Setting Mortar Based on High-Purity Alumina

- Features:
- Exceptional refractoriness.
  - Very resistant to corrosion by slags and volatile alkalis.
- Uses:
- Laying KORUNDAL® XD, H-W® CORUNDUM, and other high-alumina brick where an air-setting, phosphate-free, or low-iron mortar is desired.
  - Typical applications include sulfur burners, ammonia reformers, incinerators, and burners.

### Chemical Analysis: Approximate (Calcined Basis)

Silica (SiO <sub>2</sub> )	14.5%
Alumina (Al <sub>2</sub> O <sub>3</sub> )	82.8%
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> )	0.2%
Titania (TiO <sub>2</sub> )	0.3%
Lime (CaO)	0.1%
Magnesia (MgO)	Trace
Alkalies (Na <sub>2</sub> O+K <sub>2</sub> O)	2.1%

### Physical Data (Typical)

Maximum Service Temperature	3200°F (1760°C)
Material Required per 1000 9-inch Equivalent	lb (kg)
Brick Laid Dry Then Grouted	300 (136)
Brick Dipped or Thinly Troweled Joints	425 (193)
Modulus of Rupture at Joints	lb/ft <sup>2</sup> (MPa)
After 230°F (110°C)	490 (3.4)
Refractoriness Test	Mortar does not melt or flow out of joints when heated for 5 hours at 3000°F (1650°C)

Note: The test data shown are based on average results on production samples and are subject to normal variation on individual tests. The test data cannot be taken as minimum or maximum values for specification purposes. ASTM test procedures used when applicable.

Mixing and Using Information (Water calculated at 8.337 lb/gallon)	55 lb bag	1000 lb bag	1500 lb bag
Water Required—Troweling (Weight 24.0%)			
Pounds	13.2	240.0	360.0
Gallons	1.6	28.8	43.2
Liters	6.0	108.8	163.1

Note: Slightly more water can be added to achieve dipping consistency.

For detailed mixing and using instructions, contact your ANH representative or visit [www.anhrefractories.com](http://www.anhrefractories.com).

### Heatup/Dryout Schedule

Not applicable

### Installation Guidelines

See ANH Installation Guidelines M-2—Dry Mortars

Shelf Life (Under Proper Storage Conditions) 365 days