



## Slide Gate Plates

### Zircoa's Own Zirconium Oxide Composition Delivers Longer Operation and Peak Performance

Current tundish and ladle gate refractories cannot, at times, meet the pouring and life requirements for some grades of steel. Zircoa's Composition 3004, a high quality magnesia stabilized zirconium oxide refractory meets these tougher requirements.

Composition 3004 is designed to offer superior erosion and corrosion resistance, as well as excellent thermal shock properties. Existing gate plate refractory systems also benefit from the addition of Composition 3004 inserts, extending service life at a favorable cost advantage.

Zircoa's Composition 3004 is the best choice for both ladle and tundish gate system suppliers striving to solve unsatisfactory pouring performance and reduce overall steel making costs for their customers.



When choosing Zircoa as your source for zirconium oxide and compositions, like 3004, you not only receive the finest, consistently

high purity material, you also receive superior technical support and engineering services backed by more than 50 years experience.

### Physical Properties of Composition 3004

Stabilizer	MgO (magnesia)
Bulk Density (g/cm <sup>3</sup> )	4.6
Porosity (%)	16
Modulus of Rupture (psi)	3500
Coefficient of Thermal Expansion RT-1300°C (in/in/°C)	2.3
Thermal Conductivity (W/m-°K) 800°C	1.4



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