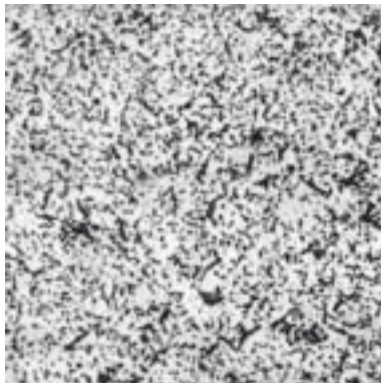


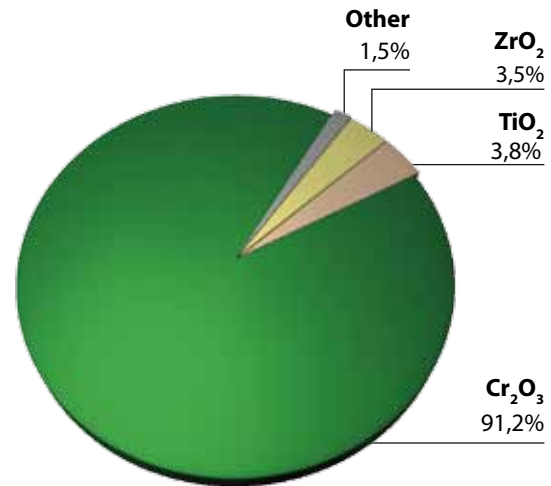
## C 1215 Z THE MATERIAL

### CHEMICAL ANALYSIS



\*Small quantities of SiO<sub>2</sub>, CaO, B<sub>2</sub>O<sub>3</sub>, Al<sub>2</sub>O<sub>3</sub>, MgO, and Alkali

### TYPICAL CHEMICAL COMPOSITION



C 1215 Z is an isostatically pressed, thermal shock resistant high purity dense chromic oxide refractory. The microstructure has been modified to yield better thermal shock resistance compared to existing dense chromic oxide products, thereby minimizing cracking on furnace heat-up and operation. The inherent refractoriness of Cr<sub>2</sub>O<sub>3</sub> combined with high density results in a refractory with unsurpassed corrosion resistance when used in a wide variety of molten glasses and slags. The stoning and blistering potential is also very low when using C 1215 Z.

### CRYSTALLOGRAPHIC ANALYSIS

Principal phase ..... Chromic Oxide  
 Secondary phase ..... Monoclinic Zirconia

### PHYSICAL CHARACTERISTICS

International System	British Standard Units
Bulk density ..... 4.33 g/cm <sup>3</sup>	..... 270 pcf
Open porosity ..... 15%	..... 15%
Cold modulus of rupture ..... 41 MPa	..... 5947 psi
Cold crushing strength ..... 240 MPa	..... 34809 psi
Coefficient of thermal expansion ..... 7.8 10 <sup>-6</sup> K <sup>-1</sup>	..... 4.3 10 <sup>-6</sup> F <sup>-1</sup>
Thermal conductivity at 1000°C ..... 3.3 W.m <sup>-1</sup> .K <sup>-1</sup>	..... 22.8 BTU in hr <sup>-1</sup> ft <sup>-2</sup> F <sup>-1</sup>
Thermal shock resistance ..... fair	..... fair

# C 1215 Z

## THE MATERIAL



Bushing block

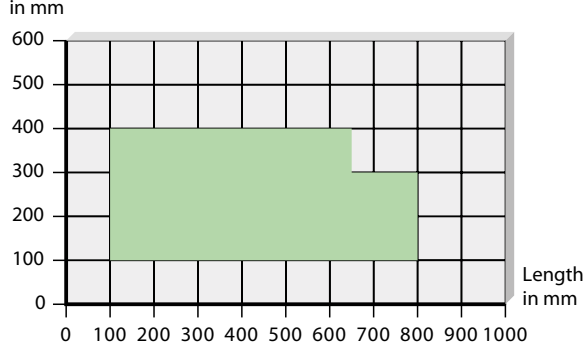
### TYPICAL APPLICATIONS

The principal application for C 1215 Z is in the critical high wear areas of furnaces melting glass for the production of reinforcing fibers and textiles (E glass).

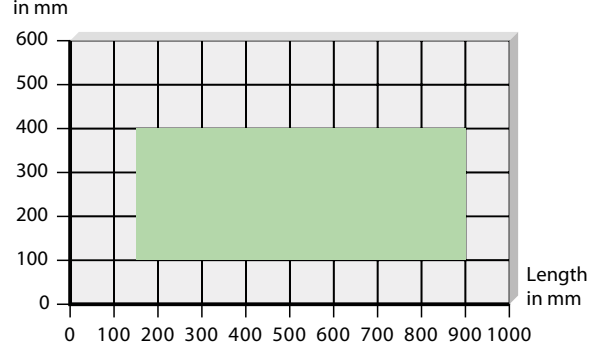
High-wear areas include: melter sidewalls, bottom paving (particularly around bubblers) and doghouse corners; forehearth and channel siderails, flow blocks, bushing blocks, and corner blocks.

### SIZE CAPABILITY ESTIMATES

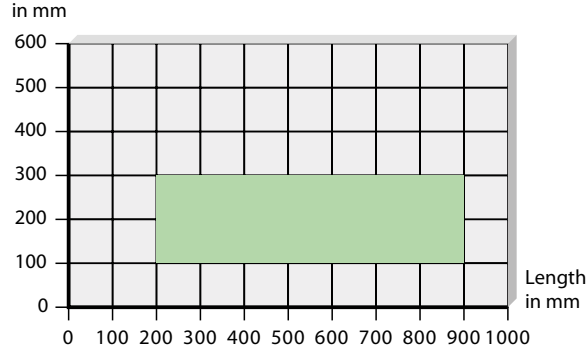
Width Thickness 50 - 100 mm



Width Thickness 150 mm



Width Thickness 200 - 250 mm



The data quoted above provides average values for current production and is not contractual. If further information is required, please contact the Saint-Gobain SEFPRO Marketing Department.