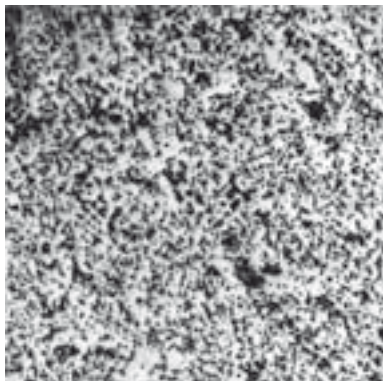
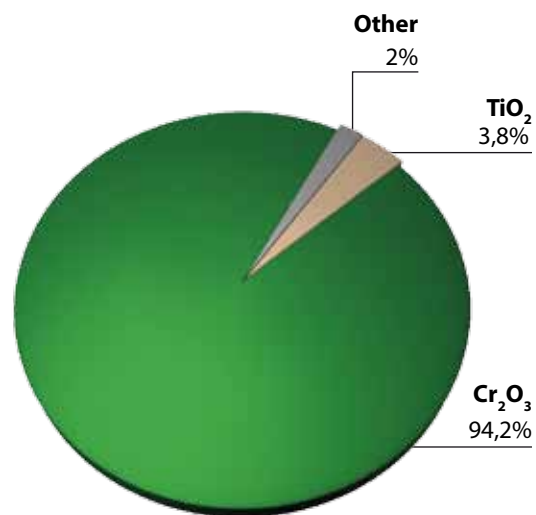


## C 1215 THE MATERIAL

### CHEMICAL ANALYSIS



### TYPICAL CHEMICAL COMPOSITION



C 1215 is an isostatically pressed, high purity dense chromic oxide refractory. 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 or slags. The stoning and blistering potential is also very low when using C 1215.

### CRYSTALLOGRAPHIC ANALYSIS

Principal phase ..... Chromic Oxide

### 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 ..... 76 MPa	..... 11023 psi
Cold crushing strength ..... 345 MPa	..... 50038 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 ..... 3.4 W.m <sup>-1</sup> .K <sup>-1</sup>	..... 23.6 BTU in hr <sup>-1</sup> ft <sup>-2</sup> F <sup>-1</sup>
Thermal shock resistance ..... low	..... low

# C 1215

## THE MATERIAL



Sidewall block

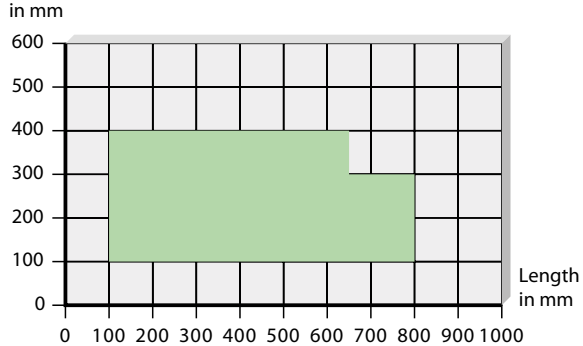
### TYPICAL APPLICATIONS

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

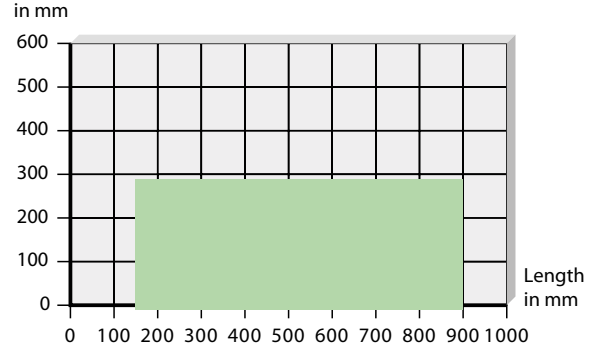
High-wear areas include: melter sidewalls, bottom paving (particularly around bubblers) and doghouse corners; forehearth and channel siderails, flow blocks, bushing blocks, and corner blocks.

### SIZE CAPABILITY ESTIMATES

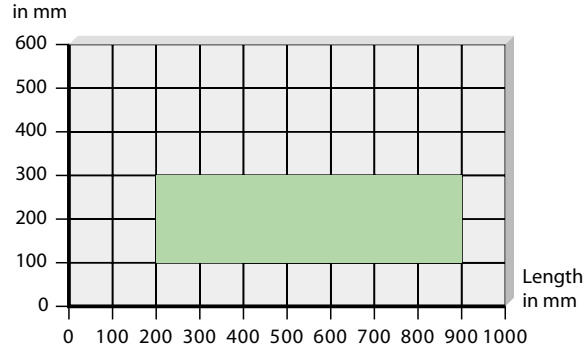
Thickness 50 - 100 mm



Thickness 150 mm



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.