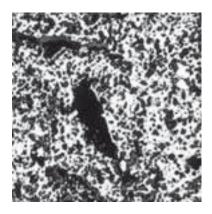
C 1221

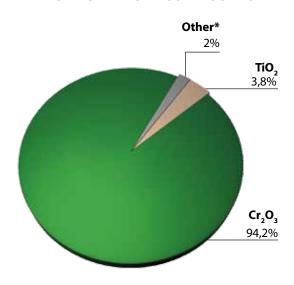
THE MATERIAL

CHEMICAL ANALYSIS



*Small quantities of SiO, CaO, BO, AlO, MgO, and Alkali

TYPICAL CHEMICAL COMPOSITION



C 1221 is a chromic oxide body with unusually high thermal cycling capability, which can be attributed to the C 1221's unique microstructure. The uniform density and single-phase microstructure also produce a refractory with minimum stoning potential. Combined with its outstanding corrosion resistance, this makes C 1221 ideal for use in high-wear areas of furnaces where excellent corrosion resistance and good thermal shock resistance are required.

CRYSTALLOGRAPHIC ANALYSIS

PHYSICAL CHARACTERISTICS

| International System | British Standard Units |
|--|---|
| Bulk density 4.16 g/cm³ Open porosity 16% Cold modulus of rupture 30 MPa Cold crushing strength 166 MPa | 260 pcf 16% 4351 psi 24076 psi |
| Coefficient of thermal expansion 7.4 10-6 K-1 Thermal conductivity | 4.1 10 ⁻⁶ °F ⁻¹ |
| at 1000°C | |

C 1221

THE MATERIAL



Throat cover block

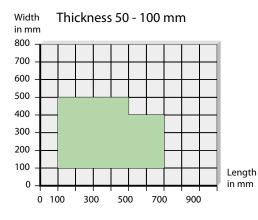
TYPICAL APPLICATIONS

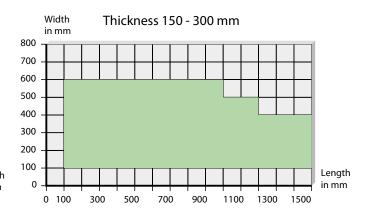
Principal applications include melter throats, flow blocks, bushing blocks, and doghouse areas of furnaces melting glass for the production of reinforcing fibers and textiles (E glass). C 1221 is ideal for throats and bushing blocks.

In virtually all other glasses, C 1221 should be considered for use in throats and other high-wear areas in furnaces melting insulating fiberglass. While dissolved chromic oxide may cause coloration in some glasses, C 1221's superior corrosion resistance can minimize this impact. C 1221 is therefore a viable refractory solution in high-wear areas of the furnace for most glasses (including clear sodalime glasses).

Due to its excellent thermal shock characteristics, C 1221 can also be installed in hot environments such as overcoating.

SIZE CAPABILITY ESTIMATES





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.