

IKOBOND® BC

- Natural thermally resistant additive.
- Plastic at high temperatures. Less casting penetration and less veining
- Improved bonding mechanism has been observed in SEM (scanning electron microscope) imagery.
- Stabilizes green sand properties when high core sand dilution occurs in green sand.

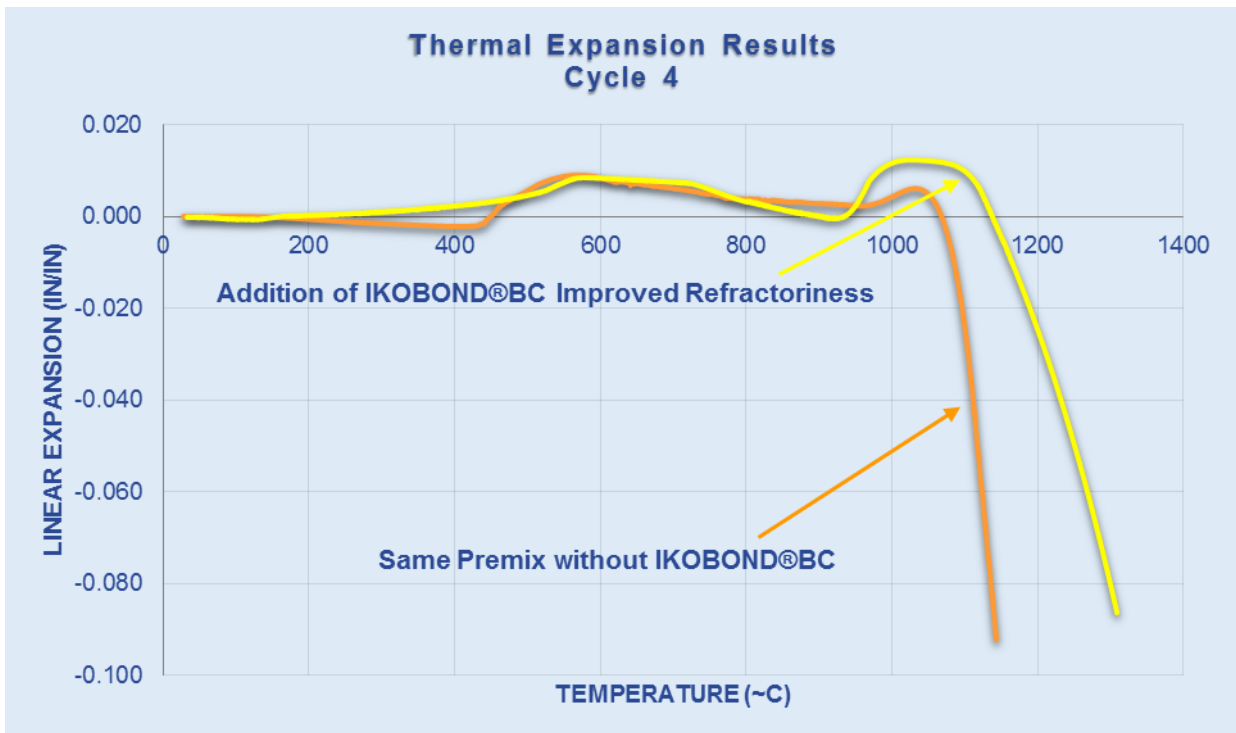


Fig.1 Dilatometer linear expansion results indicating greater refractoriness

IKOBOND® BC is a kaolinitic sedimentary clay that is fine-grained and plastic in nature. The product is mined in our IMERYS facilities in the eastern parts of the United States. It is produced as a fine lightly colored material and is white when fired. Historically, Fireclay has been used in the foundry industry for many years. Fireclays consist of natural argillaceous materials, mostly kaolinite group clays, along with fine-grained micas and quartz. IKOBOND® BC is a suitable replacement for Fireclay because the base mineral is also Kaolinite. The primary beneficial difference between IKOBOND® BC and Fireclay is that IKOBOND® BC has a greater plasticity at high temperature.

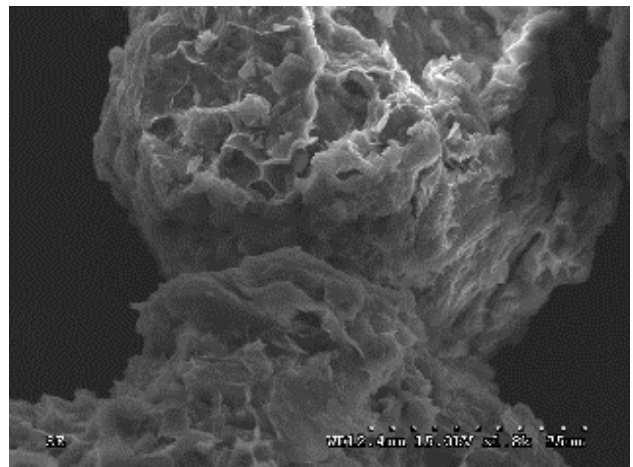


Fig.2 SEM of sand coated with bentonite and IKOBOND® BC