

# Customcote® Binder



CUSTOMCOTE binder produces strong ceramic shells with many potential benefits over standard colloidal silica and ethyl silicate shells.

CUSTOMCOTE binder can be used for primary and back-up shell coats. It can also be used with a variety of refractories depending on the individual foundry's process and casting requirements.

CUSTOMCOTE binder's excellent wetting property eliminates the need for prewets. The binder's lower slurry viscosity allows for better coverage in slots and shorter drain times.

The thinner, yet stronger, shell results in reduced shell material consumption and less shell material for disposal. Shell weights versus standard colloidal silica shells can be reduced significantly depending on the number of shell coats the foundry currently uses.

## Typical Material Properties\*

Base Composition	Colloidal Silica
Other Composition	Proprietary
Total Solids Content (Including SiO <sub>2</sub> )	27.5%/weight
Particle Size (Approximate)	10 nm
pH at 77 °F (25 °C)	10.6
Specific Gravity	1.15
Weight/Volume	9.51 lbs/gal (1.14 kg/l)
Viscosity at 77 °F (25 °C)	<10 cps
Na <sub>2</sub> O Content (Weight)	0.41%
Particle Charge	Negative

\*These results are based on the testing methods, frequency and procedures of Ransom & Randolph or its approved suppliers. The levels referenced herein are only for general guidance and do not constitute a firm specification.

## PRODUCT DATA SHEET



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