Permatech is the leader in precision precast refractory Control Pins and Spouts for rolling ingot and billet casting operations. The Permatech Sigma composition offers many advantages over other like products and helps create an extremely smooth surface finish.

All spouts and control pins are available in fully customized sizes and shapes with precise geometry to fit all casting processes. Along with the smooth surface finish, the Permatech Sigma pins and spouts provides outstanding wear properties and excellent thermal shock resistance. Special non-wetting properties prevent metal sticking and attack by aluminum and other molten metals.

- Low Coefficient of Thermal Expansion
- Low Thermal Mass and Conductivity
- High Hardness
- Unique Casting Technology
- Excellent Thermal Shock Resistance
- Thermal Insulation
- Long Life Wear Resistance
- Long Life Corrosion Resistance
- Precise Geometry
- Complex Shape Capability
- Non Reactive with Molten Aluminum Alloys

ENGINEERED FOR MAXIMUM PRODUCTIVITY