

Blasch Precision Ceramics + Allied Mineral Products Partnership

Precision ceramic solutions replace steel or iron castings with exact refractory castings selected based on the application. Refractory materials must be chemically and physically stable at high temperatures. Depending on the operating environment, they must also be resistant to thermal shock and abrasion, chemically inert, and have specific ranges of thermal conductivity and expansion.

Benefits:

- Superior performance (often 3-5 times greater)
- Minimal maintenance
- Lighter weight (up to 1/3 of steel)
- Smoother finish, more efficient
- Higher temperature limits
- Exact replacement



Blasch SiClone™ Mechanical Dust Collectors

Blasch high performance ceramic dust collector components are engineered to mount in place of existing iron or steel components. Blasch's highly abrasion-resistant refractory compositions far outlast traditional cast iron or Nihard, resulting in optimal separation efficiencies, maximum cyclone life and elimination of maintenance and dramatically lower replacement costs compared with metallic components.



CeraLine™ Lined Elbows, Pipe, and Spool Linings

Available as a turnkey unit with steel pipe and flanges. Blasch precast tight tolerance shapes are used to line pipe with diameters ranging from 1/2 inch to several feet. CeraLine's engineered joints and smooth bore eliminate premature wear and interrupted flow. It also reduces pressure drop and flow restriction.



Tubular Air Preheater Inserts

Reliable wear-resistant inserts are designed for air pre-heater tubes, both in the inlet and outlet ends. Engineered with thin walls, flanges and precise tolerances, these inserts protect the weld integrity and tube surface while absorbing abrasion from the ash. Blasch inserts are custom-designed and available in several abrasion-resistant materials. Blasch inserts can be installed to seal existing holes or in new tubes, allowing maintenance engineers to keep the plant online and minimize repairs of tubes.

Blasch Burner and CFB Nozzles

Available in several materials that thrive in oxidizing or reducing environments, burner nozzles help improve heat cycles while reducing energy consumption.



Blasch Custom Shapes

Blasch's reliable, high-performance ceramic shapes are custom engineered to replace monolithic hexmesh structures or metallic fabrications. Superior dimensional control results in closely toleranced net shape parts like valves, sleeves, nozzles, elbows, impact pads, thermowell sleeves, injectors and other ancillary parts that minimize process variability and maintenance.