

Ceramite® & DynaGuard™

Superior Performance in Wear Resistant Applications

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Aluminum Industry

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Aluminum Industry Troughing Ceramite® Combined with Microporous Insulation

Ceramite® is a family of advanced ceramics that incorporate inorganic composite materials & densely packed micro particles. Ceramite® is formulated to yield high abrasive wear resistance, excellent mechanical strength, resistance to high temperature and resistance to thermal shock conditions. Ceramite® cast, hi-fired shapes are designed and produced to your specific application.

DynaGuard™ is a superior solution for very low thermal conductivity requirements at high temperatures. Low weight and critical space concerns are addressed by microporous insulation where organic binders and RCFs are not desired. DynaGuard™ has been formulated in accordance with strict guidelines and is available in several forms and densities. The standard size for the slabs is 18" x 24" with a thickness up to 4". DynaGuard™ is inorganic, binder-free and does not release any toxic/hazardous gases. The slabs can easily be cut and trimmed with a sharp knife to aid in installation.

The photos illustrate an application combining Ceramite® as a working trough (or launder) liner and DynaGuard™ as the most efficient back up lining to reduce heat loss through the trough.

Ceramite® SFR-SB - fused silica, self flow, non wetting formulation was used to cast the troughs at our Glencairn, Ontario facility. The shapes were grooved at the ends to allow for a mortar joint and labyrinth design in the event of metal penetration.

DynaGuard™ boards were supplied as ½" thick 18" x 24". The boards are easily laid out with a sharp knife edge tool or pruning saw. A layer of ceramic fibre paper was used to overlap all joints within the Ceramite® & DynaGuard™ shapes. The shapes were retained on the top by bolt-on angles and at the ends where they mated to the holding furnace and degassing furnace. The system has been in operation since January 2007.

Ceramite® high strength, aluminum resistant - DynaGuard™ lightweight, most efficient insulation in the marketplace. A system that improves performance while retaining heat in the metal



INDUSTRIES SERVED

- ✦ Refining
- ✦ Rock Products
- ✦ Chemical
- ✦ Steel
- ✦ Non-Ferrous
- ✦ Die-Casting
- ✦ Power Generation
- ✦ Incineration
- ✦ Zinc
- ✦ Boiler Manufacturing
- ✦ Primary Aluminum
- ✦ Secondary Aluminum