



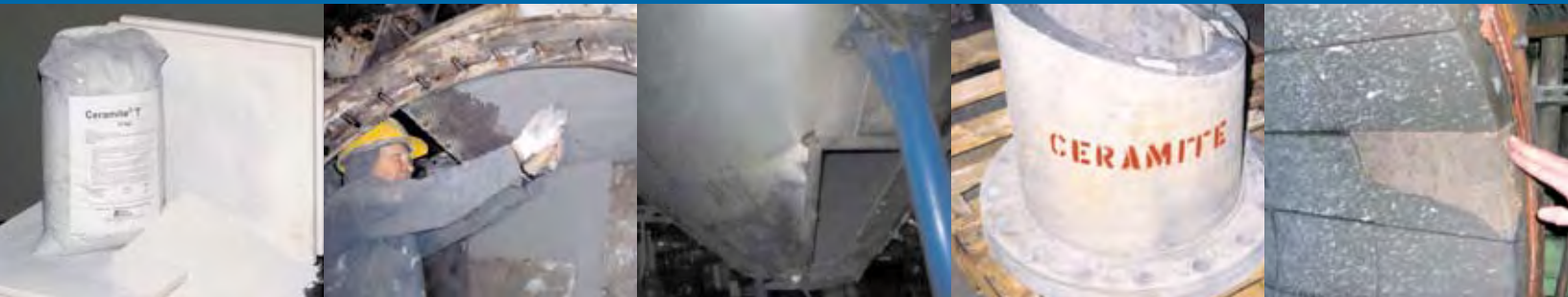
**ST. LAWRENCE**

Alloys for Industry Since 1955

# Ceramite®

## Wear Resistant Ceramics

- Wear Resistant Materials
- Over 50 Years Experience
- Custom Fabrications
- Extended Service Life





## CERAMITE® WEAR RESISTANT CERAMICS

**Ceramite®** is a range of advanced ceramic products incorporating inorganic composite materials and densely packed particles, especially formulated to give superior performance in applications where wear resistance is a crucial concern. Ceramite® has been shown through extensive testing, both in laboratories and in industrial applications, to be able to replace traditional wear resistant materials in higher temperature applications (2200°F) and thermal shock conditions. As a state of the art thermal wear (abrasion) resistant material, Ceramite® can outperform special steels, cast fused basalt, metal castings, or rubber materials.



Precast bolt-on Ceramite® BKR tile



Easily troweled Ceramite® T

### Advantages

- Suited for high temp wear resistant applications
- Dense ceramic with low porosity
- Excellent consistency for troweling vertically & overhead
- Eliminates epoxy fumes and reduces welding required
- Monolithic finish eliminates tile cutting and joints
- Can be precast to eliminate air cure
- Easy To mix

### Product Qualities

Product Quality	Description	Maximum Service Temperature	Density lbs/ft3	Compressive strength after 7 days at 68°F	Porosity %
Ceramite® T	50-70% Al <sub>2</sub> O <sub>3</sub>	2195°F	174	21756-29008 psi	n/a
Ceramite® BKR	79% Al <sub>2</sub> O <sub>3</sub>	2200°F	169	29000 psi	13.2



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# Ceramite® Standard Sizes

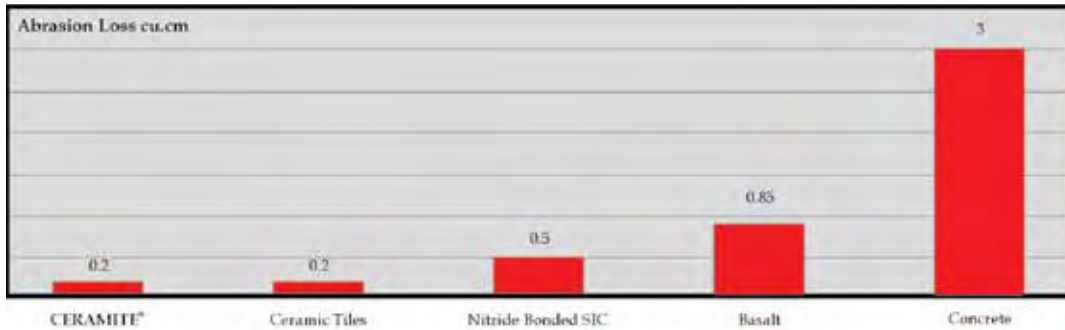
**Ceramite®** is available in, both, trowelable and castable formulae. Ceramite® T, for “in-situ” repairs and Ceramite® BKR, for casting a wide range of precise shapes.

**Ceramite® BKR**, castable is available in precision engineered shapes offering superior dimensional stability for your application. Ask your Ceramite® application specialist which shapes can accept molten metal contact and for more details about precision shapes to meet your specific requirements.

**Ceramite® T**, when mixed with water yields a mortar like product that offers excellent adhesion and insulation properties. Ceramite® T, is designed for repair of virtually any surface that has been exposed to sliding wear, abrasion and impact. Available in 55 pounds bags Ceramite® T, is an ideal solution for performing minor repairs such as repair of damaged or missing tiles, through major relining projects.

## Wear Resistance Comparison

The Bohme Wear Resistance Test According to DIN Standard 52108



## Ceramite® T: Trowelable Mixing Instructions

1. An effective pan mixer is recommended. For mixing smaller quantities of mortar a heavy-duty electric drill with a jiffler mixer can be used.
2. Add the appropriate amount by weight of Ceramite® T powder to the mixing vessel.
3. Carefully measure and gradually add the recommended amount of water into the mixing vessel. Only potable water at a temperature not exceeding 77°F should be used.
4. Be patient! The total mixing time is 6 minutes minimum. Ensure that the Ceramite® T is thoroughly mixed.
5. Air dry is sufficient for most applications. Heat cure is required for higher temperature environments / applications.
6. Typical coverage of a 55 lb. bag: 7 sq. ft. at 1/2" thickness. Actual results will vary by application.

CERAMITE® SUGGESTED APPLICATIONS

### INDUSTRY

- Aluminum
- Cement
- Iron & Steel
- Power Generation
- Waste Incineration
- Mining
- Kiln Curing
- Refining
- Rock Products
- Chemical
- Die-Casting
- Incineration
- Zinc Production / Casting
- Boiler Manufacturing
- Precast Manufacturing
- Mineral Processing
- O.E.M. Furnace Builders

### WEAR LINING APPLICATIONS

- Transition Sections
- Elbows
- Wear Backs
- Ductwork
- Chutes
- Vibration Feed Systems
- Containment Panels
- Scrubbers
- High Wear Inlet Corners
- Waste Cyclones
- Dust Collection Systems
- Feed Chutes
- Kilns





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**Ceramite® T & BKR**

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