

Monolithic Refractory Contributing to CO₂ Emission Reduction

“Dry-Free™”

Dry-Free™ technology eliminates lengthy drying process, enabling faster furnace startup and reducing CO₂ emissions.

Advantages of Dry-Free™

1. No drying process required
2. High explosive spalling resistance
3. High alkali resistant

1. No drying process required

In a domestic incinerator application, Dry-Free™ enabled operation to begin with only preheating, eliminating the drying process. As a result, CO₂ emissions were reduced by 92%, and the construction schedule was shortened by 72 hours. (Fig. 1)

2. High explosive spalling resistance

High permeability of the material facilitates efficient water removal, enabling safe and faster furnace startup without the risk of explosive spalling. (Fig. 2)

3. High alkali resistant

A one-year evaluation conducted in an incinerator operating above 1500°C showed that Dry-Free™ exhibited excellent corrosion resistance with minimal spalling and melting damage. (Fig. 3)

Installation method

- Casting
- Pump casting
- Conventional gunning
- Shotcrete

Supply record

- Incinerators
- Circulating Fluidized Bed Boilers
- Cement Plants
- And more.

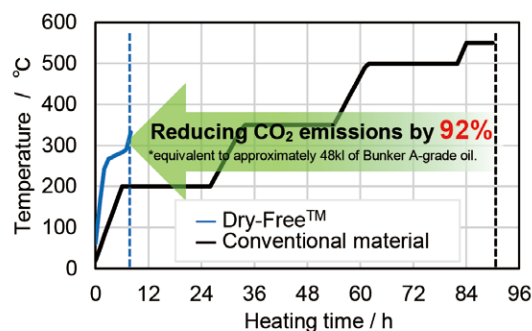


Fig. 1 Drying and preheating schedule example.

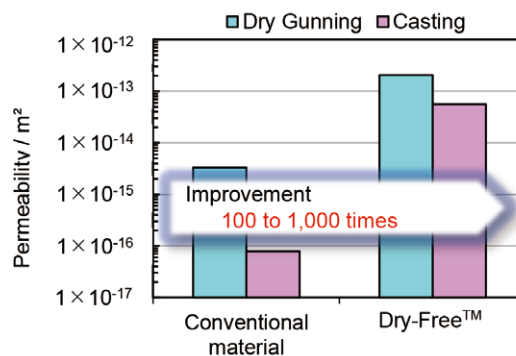


Fig. 2 Permeability.

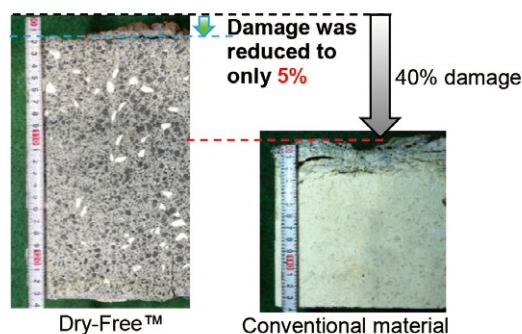


Fig. 3 Damage amount comparison.