

# Product Data Sheet

Reference PDS-REFPAC 100-RE-EN-KFR-032015

## REFPAC™ 200 Refractory Applications

Fluidifier for high purity  
alumina, alumina-spinel/  
magnesia castables

### 1 General Characteristics

**REFPAC™ 200** is a multicomponent active compound design to be used in conjunction with calcium-aluminate cements in refractory applications. This new generation of fluidifying agent was specifically developed for low to ultra-low cement, alumina and alumina-spinel/magnesia castables.

**REFPAC™ 200** provides characteristics ideally suited for refractory applications where excellent rheological properties are required at very low water additions. By providing improved flow at lower water demands, **REFPAC™ 200** ensures optimal castable performance in situ.

**REFPAC™ 200** has been tested in model castable systems up to 1500°C and displays no detrimental effects to castable performance and did not alter the fired physical properties of the castable system in comparison to standard additive systems.

### 2 Compatibility

**REFPAC™ 200** is used in place of the normal additive package for alumina and alumina spinel/magnesia castables and is compatible with all standard accelerator and retarders used for refractory applications.

**The use of REFPAC™ 200** is recommended for high technology refractories such as low cement, ultra-low cement products and when combined with a correctly rheologically optimised size distribution suitable for vibration, self-flowing and pumping grade materials.

Laboratory trials are recommended prior to any industrial use.

### 3 Specifications

Appearance:	Fine Powder
Colour:	Off-White
Odour:	None
Specific Gravity:	2.60 – 2.70 g/cm <sup>3</sup>
Bulk Density:	1.15 – 1.30 g/cm <sup>3</sup>

#### Typical Chemical Analysis

Al <sub>2</sub> O <sub>3</sub>	61 – 67%
CaO	24 – 30%
SiO <sub>2</sub>	< 1.0%
K <sub>2</sub> O + Na <sub>2</sub> O	< 1.0%
LOI	6 – 9%

### 4 Dosage

The recommended dosage of **REFPAC™ 200** is 1.0% by weight of castable. It is recommended to replace all other dispersants & additives as well as the balance of 1% of the matrix.

### 5 Packaging & Storage

- Shelf Life: 12 months at 5-35°C in un-opened buckets or paper-sacks on shrink-wrapped pallets.
- The product may absorb moisture if stored in high humidity environments.
- Open bags should be resealed and used in a relatively short period of time.

*Kerneos reserve the right to modify the product characteristics as a function of manufacturing experience.*

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