

EXCELERATE ABR PLUS

Product Data

Ref:267/31/10/12

Description: Phosphate-Bonded, Abrasion-Resistant, 80% Alumina Castable.

- Features:**
- Can be rammed, vibration cast, hand packed or gunned hot and cold.
 - Develops a quick set and can be heated at an accelerated rate within 4 hours of installation to minimise furnace downtime.
 - Provides excellent strength and abrasion resistance when cast, gunned, or rammed.

- Uses:**
- General purpose repair material for wide range of applications.
 - Fluid catalytic cracking unit cyclones, air ring, reactor feed lines, slide valves, and regenerator return lines.
 - Feed chutes, general patching, door sill repairs, duct catchers, and pre-cast special shapes.

Chemical Analysis: Approximate (Calcined Basis)

Silica - SiO ₂	7.1%
Alumina - Al ₂ O ₃	82.4%
Titania - TiO ₂	1.0%
Iron Oxide - Fe ₂ O ₃	0.5%
Lime - CaO	2.4%
Magnesia - MgO	0.9%
Alkalies - Na ₂ O + K ₂ O	0.3%
Phosphorous Pentoxide - P ₂ O ₅	5.4%

Physical Properties

	Vibration Cast
Maximum Recommended Temperature	1315°C
Quantity Required	2740 Kgs/m ³
Water required for mixing per 100 Kgs	5.8 - 7.0 Litres
Bulk Density	Kgs/m ³
After Heating at 315°C	2530 - 2630
After Heating at 815°C	2500 - 2590
Modulus of Rupture - ASTM C133 and C865	MPa
After Heating at 315°C	9.7
After Heating at 815°C	17.2
After Heating at 1260°C	18.6
Cold Crushing Strength - ASTM C133 and C865	MPa
After Heating at 315°C	20.7 - 37.9
After Heating at 815°C	19.3 - 36.6
After Heating at 1260°C	113.1
Permanent Linear Change - ASTM C113 and C865	
After Heating at 315°C	0.0 - 0.3% Shr
After Heating at 815°C	0.3% Shr
After Heating at 1260°C	0.6% Shr
Abrasion Loss - ASTM C704	cc
After Heating at 815°C	<10
Apparent Porosity	
After Heating at 315°C	19.0%
After Heating at 815°C	22.0%
After Heating at 1260°C	15.8%
Shelf Life (Under Proper Storage Conditions)	90 days

Note: The test data shown are based on average results of control tests and are subject to normal variation on individual tests. These results cannot be taken as maximum or minimum requirements for specification purposes.

MSDS, Installation Guidelines and Dry Out Schedules are also available.