

DUKAST 2700 F

Recommended Service Temperature Limit, °C, (°F)	1402 (2700)
Method of Installation	Casting
Type of Set	Hydraulic
Mixing Water, per Container, ASTM C-860, litre, (pints)	2.6 (2.7)
ASTM Castable Classification, ASTM C-401	Class C
Weight to Place, Kg/m ³ (lb/ft ³)	2080 (130)
Weight in Service at 815 °C (1500 °F), Kg/m ³ (lb/ft ³)	2048 (128)
Minimum time before firing, hours	24 hrs
Maximum particle size, mm (mesh)	4.75 (4)
Storage Life @ 21 °C (70 °F)	6 Months
Packaging, weight per container, Kg (lb)	25.0 (55)

Typical Chemical Analysis, % (Calcined Basis)

Al ₂ O ₃	48.3	Fe ₂ O ₃	1.1	Na ₂ O	0.1
SiO ₂	40.1	CaO	7.1	K ₂ O	0.7
TiO ₂	2.3	MgO	0.3		

After Heating at: °C (°F)	Bulk Density Kg/m ³ (lb/ft ³)	Linear Change %, ASTM C-113	Apparent Porosity %, ASTM C-830
110 (230)	2080 (130)	- 0.1	---
538 (1000)	----	---	---
815 (1500)	2048 (128)	- 0.3	---
1093 (2000)	----	---	---
1400 (2500)	2048 (128)	- 0.1	---
1500 (2732)	----	---	---
1600 (2910)	----	---	---
1700 (3092)	----	---	---

After Heating at: °C (°F)	Cold Modulus of Rupture MPa (lb/in ²), ASTM C-133	Cold Crushing Strength MPa (lb/in ²), ASTM C-133
110 (230)	6.9 (1000)	31.2 (4500)
538 (1000)	---	----
815 (1500)	3.8 (550)	20.4 (2950)
1093 (2000)	---	----
1400 (2500)	11.8 (1700)	35.4 (5100)
1500 (2732)	---	----
1600 (2910)	---	----
1700 (3092)	---	----

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Note: Data are averaged results of laboratory tests conducted under applicable and current ASTM standards, except where noted. Data should not be used for exact specification purposes.