



# Duquesne

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LES PRODUITS REFRACTAIRES DUQUESNE LTD.

DUQUESNE REFRACTORIES LIMITED

## DUKAST EXTRA LITE WAITE

Recommended Service Temperature Limit, °C, (°F)	1093 (2000)
Method of Installation	Casting
Type of Set	Hydraulic
Mixing Water, per Container, ASTM C-860, litre, (pints)	5.5 (10)
ASTM Castable Classification, ASTM C-401	Class N
Weight to Place, Kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	881 (55)
Weight in Service at 815 °C (1500 °F), Kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	849 (53)
Minimum time before firing, hours	24 hr.
Maximum particle size, mm (mesh)	4.7 (4)
Storage Life @ 21 °C (70 °F)	9 months
Packaging, weight per container, Kg (lb)	16.0 (35)

### Typical Chemical Analysis, % (Calcined Basis)

Al <sub>2</sub> O <sub>3</sub>	34.5	Fe <sub>2</sub> O <sub>3</sub>	4.2	Na <sub>2</sub> O	0.6
SiO <sub>2</sub>	35.8	CaO	23.5	K <sub>2</sub> O	0.8
TiO <sub>2</sub>	0.1	MgO	0.5		

After Heating at: °C (°F)	Bulk Density Kg/m <sup>3</sup> (lb/ft <sup>3</sup> )	Linear Change %, ASTM C-113	Apparent Porosity %, ASTM C-830
110 (230)	881 (55)	- 0.2	41
538 (1000)	--- (---)	- 0.2	55
815 (1500)	849 (53)	- 1.0	60
1093 (2000)	801 (50)	- 1.4	70
1400 (2550)	--- (---)	---	---
1500 (2732)	---	---	---
1600 (2910)	---	---	---
1700 (3092)	---	---	---

After Heating at: °C (°F)	Cold Modulus of Rupture MPa (lb/in <sup>2</sup> ), ASTM C-133	Cold Crushing Strength MPa (lb/in <sup>2</sup> ), ASTM C-133
110 (230)	2.4 (350)	3.5 (500)
538 (1000)	1.0 (150)	3.5 (500)
815 (1500)	0.9 (125)	2.4 (350)
1093 (2000)	0.7 (100)	2.1 (300)
1400 (2550)	---	---
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.