



CLAYBURN INDUSTRIES LTD.

33765 PINE STREET
ABBOTSFORD, BC
CANADA V2S 5C1
PHONE: (604) 859-5288
FAX: (604) 859-0424

TECHNICAL DATA

CLAYBURN CLEANCAST 21Z

CLAYBURN CLEANCAST 21Z is an alumina-zircon aggregate based, thermal shock resistant, low cement castable. CLAYBURN CLEANCAST 21Z has excellent resistance to abrasion and alkali attack. Can be used for applications in the cement, lime and glass industries.

SERVICE TEMPERATURE:	2800°F
MATERIAL REQUIRED FOR ESTIMATING:	178 lbs./cu. ft.
CASTING WATER:	4.3 – 4.8%
PUMPING WATER:	5.5 – 5.8%

TYPICAL CHEMICAL ANALYSIS
(Calcined Basis)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	TiO ₂	ZrO ₂	CaO	Alk	SiC
46-48	22.3	0.5	<1.0	20-22	1.3	0.5	4.8

TYPICAL PHYSICAL PROPERTIES

Prefired to °F	Modulus of Rupture, psi	Cold Crushing Strength, psi	Linear Change %
250	2100	7321	Nil
1500	2780	9292	-0.20
2000	3300	12280	-0.30
2500	4200	14000	-0.30

APP. POROSITY: 13.6% After 1500°F

ABRASION LOSS AFTER 1500°F: 5.9 cc

THERMAL CONDUCTIVITY (ASTM C-1113): 14.6 BTU-in/hr-ft²-°F @ 1000°F

169020 – 03/04/04

The data represents typical average results obtained by testing under ASTM or other acceptable procedures as required. They are subject to normal variations and should not be used for specifications.