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Technical Data Sheet

Plicast HyMOR 3100 Special KK

Product Number 2428

Date

1/1/2013

Product Description

A versatile high strength, multite based low cement castable with excellent resistance to thermal shock/cycling. May be vibration cast, cast or pumped.

Service Limit - 3100°F 1,704. °C	Std. package 55 # / 25 kg Bag
Density to place 152 pcf 2,435 kg/m3	Water range per std. package:
Density in service 152 pcf 2,435 kg/m ³	Casting 1.6 to 1.8 qts 1.6 to 1.7 /
Mim Time berfore firing 16 hr	Pumping 1.9 to 2.0 qts 1.8 to 1.9 l

Chemi	istry % (d	calcined)	
AL _O	61.1	P2O6	
SiO ₂	34.7	Alk.	0.2
Fe ₂ O ₃	0.9	MgO	0.1
CaO	1.6	SiC	
TIO ₂	1.6	ZrO ₂	
		Other	

Thermal Cond	ductivity	
btu	w/mPC	
500F / 260C	10.7	1.54
1000F / 540C	11.3	1.62
1500F / 815C	12.0	1.72
2000F / 1090C	12.6	1.81

	Abrasion Loss per ASTM C 704 after 1500 F
	7 oc
TI	Coefficient of nermal Expansion
	(reversable)
	3.6 x 1046 inlin F
	6.4 x 10^6 mm C

Temperature	Linear Change		MOR M C133	CCS per ASTM C133		Hot MOR per ASTM C583	
ASTM C113 / C865	ASTM C113 / C179	psi	MPa	Rei	MPa	pai	MPR
230 F / 110 C	0.0%	2000	13.8	7000	48		
1500 F / 815 C	-0.2%	2500	17.2	8500	59	3900	26.9
2000 F / 1090C	-0.3%	2800	19.3		0	3600	24.8
2500 F / 1370 C	0.5%	3000	20.7		0	1000	6.9
3000 F / 1650 C	0.4%	3200	22.1		0		0.0

Other Data

Heat Up Guide

Schedule C or C-Linear

ASTM Class

C 401 Class F Low Cement Castable

Note:

All data are averaged results of ASTM tests (where applicable) on laboratory cast specimens.

Reasonable variations in data can be expected. Data is not to be used for specification purposes. Product data is periodically updated to reflect product / raw material / process / testing changes. Please consult your Pilbrico representative to make sure you have the most current data.