



# TECHNICAL DATA

## PUROTAB® COARSE

### COARSE AGGREGATE TABULAR ALUMINA CASTABLE

Recommended Service Temperature Limit.....	3400°F
Water Required for Mixing	:Spade Cast..... 6.5-8%
	:Vibrated, External or Internal Vibration..... 5.75-6.75%
Material Required Per Ft <sup>3</sup> .....	170-177 lb
Packaging.....	55 lb bag

#### SPADE CAST

TEMPERATURE (°F)	BULK DENSITY (lb/ft <sup>3</sup> )	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in <sup>2</sup> )	COLD CRUSH STRENGTH (lb/in <sup>2</sup> )	K-FACTOR ASTM C-1113 (BTU-in/hr-Ft <sup>2</sup> °F)
220	173-180	-0.1 to -0.4	1000-1400	2100-3900	---
1500	170-177	-0.1 to -0.5	700- 900	2000-3000	22.1
2250	169-175	-0.3 to -0.5	800-1200	3100-4700	---
2550	169-175	-0.4 to -0.8	1400-2400	2100-4800	19.2
3000	175-180	-0.4 to 0.1	1500-2000	3100-5300	---

#### VIBRATION CAST

TEMPERATURE (°F)	BULK DENSITY (lb/ft <sup>3</sup> )	LINEAR CHANGE (%)	MODULUS OF RUPTURE (lb/in <sup>2</sup> )	COLD CRUSH STRENGTH (lb/in <sup>2</sup> )	K-FACTOR ASTM C-1113 (BTU-in/hr-Ft <sup>2</sup> °F)
220	185-190	-0.6 to -0.3	1000-2000	5400-11400	48.1
1500	180-185	-0.6 to -0.3	800- 1800	3400- 9400	20.5
2250	179-184	-0.7 to -0.1	800-1800	6400-12400	19.4
2550	179-184	-0.8 to -0.2	1700-2700	5800-11800	19.0
2910	178-183	-0.7 to -0.1	1700-2700	4200-10200	18.9

#### CHEMICAL ANALYSIS: (Ignited)

Al <sub>2</sub> O <sub>3</sub>	.....	97.0%
SiO <sub>2</sub>	.....	0.1
Fe <sub>2</sub> O <sub>3</sub>	.....	0.1
TiO <sub>2</sub>	.....	Tr
CaO	.....	2.5
MgO	.....	0.1
Alkalies	.....	0.2

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), and should not be considered to be guaranteed specifications. Properties are subject to normal manufacturing statistical standard deviation ranges, and Resco Products, Inc. reserves the right to modify the properties and specifications at any time without prior notice.

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