



# CAST 2550 LI C

VIBRATION CAST, SELF-FLOW

## General Information

CAST 2550LI C is a high strength, low iron castable refractory. This multipurpose coarse castable is suitable for both abrasive and reducing environments. Applications for this product include kiln car tops, cold end of lime sludge kilns, marine and stationary boilers, ash pits, cement clinker coolers, multi-hearth furnaces, CO boilers, and heat treat furnaces.

## Chemical Analysis

Al <sub>2</sub> O <sub>3</sub>	46.1%
SiO <sub>2</sub>	39.9%
CaO	8.3%
TiO <sub>2</sub>	2.6%
Fe <sub>2</sub> O <sub>3</sub>	1.4%

Maximum Use Temperature	1400°C (2550°F)
Material Required Vibration Cast	2.13 g/cm <sup>3</sup> (133 lb/ft <sup>3</sup> )
Grain Size	13 mm (1/2 inch) and finer
Installation Methods	Vibration/Casting
Standard Packaging	25 kg (55 lb) multi-wall paper bags
Note:	Bulk bags available upon request

## VIBRATION CAST DATA

Temperature		Density		PLC †	MOR		CCS		K-factor*	
°C	°F	g/cm <sup>3</sup>	lb/ft <sup>3</sup>	%	MPa	psi	MPa	psi	W·m <sup>-1</sup> ·K <sup>-1</sup>	BTU·in / ft <sup>2</sup> ·hr·°F
110	230	2.21	138.0	0.0	8.1	1175	44.9	6515	-	-
815	1500	2.13	133.0	0.0 to -0.05	4.6	665	33.3	4830	1.21	8.4
1095	2000	-	-	-0.1 to -0.3	-	-	-	-	1.23	8.5
1230	2250	-	-	0.0 to -0.2	-	-	-	-	-	-
1400	2550	2.08	130.0	-0.5 to 1.5	8.2	1200	29.6	4300	-	-

† Permanent Linear Change

\*estimated

## SET TIMES AND WATER REQUIREMENTS

**Water Required**  
**Working Time**  
**Initial Set**  
**Final Set**

**Vibration**  
 9.5 - 10.5%  
 up to 1 hr  
 2 - 6 hrs  
 5 - 12 hrs

Allied Mineral Products, Inc. supplies a complete line of monolithic refractories for industrial applications. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: Contains aluminum oxide, aluminosilicates, cement, and silica. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Refer to Material Safety Data Sheet for additional information and disposal instructions. Avoid breathing dust. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Avoid contact with skin and eyes. Cement powder or freshly mixed castable may cause eye and skin irritation. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.

(C2550LI C)  
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