



STACKCRETE® G

VIBRATION CAST, PUMP CAST, SHOTCRETE

General Information

STACKCRETE® G is a carbon containing thermally conductive castable with an addition of silicon carbide. STACKCRETE G is recommended for high temperature zones of blast furnaces and cupolas. STACKCRETE G will improve the heat transfer and increase energy efficiency.

Chemical Analysis

(Major Components)*

C	64.0%
SiC	19.0
Al ₂ O ₃	6.0
CaO	2.0

*Proprietary ingredients excluded, coked basis

Maximum Use Temperature	1650°C (3000°F)
Material Required Vibration Cast	1.63 g/cm ³ (101 lb/ft ³)
Grain Size	4 mm and finer
Installation Methods	Vibration Cast, Pump Cast, Shotcrete
Standard Packaging	25 kg (55 lb) bags
Note:	Bulk bag packaging available upon request

VIBRATION CAST DATA

Temperature		Density		Linear Expansion [†]	MOR		CCS		Porosity	K-factor		Abrasion Resistance
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	%	W·m ⁻¹ ·K ⁻¹	BTU·in ft ² ·hr·°F	cm ³
110	230	1.63	101.8	0.00	4.7	685	4.2	608	12.6	-	-	22.7
980	1800	1.52	95.0	-0.56	1.7	242	0.9	136	-	7.60	52.6	-
1315	2400	1.61	100.7	-0.44	4.2	603	5.3	766	-	10.30	71.4	-
1480	2700	1.61	100.2	-0.14	3.9	566	5.2	756	-	15.10	104.7	19.4

[†] Permanent Linear Expansion

SET TIMES AND WATER REQUIREMENTS

	External Vibration	Pump/Shotcrete
Water Required	8-10%	13-14%
Working Time	30 mins	30 mins
Initial Set	2-4 hr	2-4 hr
Final Set	5-8 hr	5-8 hr

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, silicon carbide, carbon, 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.

(SCG)

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