

PRODUCT BULLETIN

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**ALLIED
MINERAL**
PRODUCTS, INC.

CW 137 CASTABLE

General Information

CW 137 CASTABLE is a high-purity, bubble alumina-based refractory recommended for use in covers, doors, and as an insulating backup refractory in applications where high temperature heat radiation is a factor. CW 137 CASTABLE offers the following benefits and features:

- > Superior thermal shock resistance
- > Excellent casting properties
- > Resists chemical attack

Technical Data

Chemical Analysis

Al ₂ O ₃	94.5%
CaO	4.8%
SiO ₂	0.4%
Alkali	0.2%
Fe ₂ O ₃	0.1%

Material Required.....	1.60 g/cm ³ (100 lb/ft ³)
Grain Size.....	5 mm (4 mesh) and finer
Maximum Temperature Limit.....	1815°C (3300°F)
Installation Method.....	Cast/Vibration

Cast Data

Temperature		Density		PLC [†]	MOR		CCS		Porosity
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	%
105	230	1.68	105	-	5.6	810	19.1	2770	23.4
540	1000	1.60	100	-0.1	4.2	610	13.9	2010	30.3
815	1500	1.57	98	-0.1	4.9	710	19.0	2760	31.8
1095	2000	1.59	99	0.2	2.7	390	19.4	2820	47.8
1370	2500	1.62	101	-0.5	7.9	1150	7.9	1150	52.6
1500	2730	1.49	93	0.9	8.9	1290	18.1	2630	54.2
1650	3000	1.54	96	-0.6	10.5	1520	20.2	2930	53.0

Packaged in 25 kg (55 lb) multi-wall paper bags protected with stretch wrap. Also available in bulk bag packaging. Storage beyond 24 months is not recommended. Store in a dry location to avoid moisture pickup.

Casting and Sintering Data

Water Required:	14.5 – 17%
Working Time:	30 minutes to 4 hours
Initial Hydraulic Set:	1.5 – 6 hours
Final Hydraulic Set:	4 - 8 hours
Form Removal:	18 hours after casting

Allied Mineral Products, Inc. supplies an entire line of monolithic refractories for the metals industry. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: Contains aluminum oxide, silicon carbide, carbon black, 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. Carbon black is classified by the IARC as a potential carcinogen. 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. Hydrogen gas is generated when product is exposed to water. Proper ventilation should be supplied to avoid gas buildup. Avoid use of enclosed forms. Ignition of hydrogen gas in an enclosed area can lead to personal injury. 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.

(CWC137)

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