



PRODUCT DATA

Brand Name:

GC SAKONITE®

Description: GC SAKONITE® is a “gun castable” with a 2200°F service temperature limit. It was specially designed to give good gunning characteristics and also be a good castable. It is used in applications where conventional concrete is not refractory nor strong enough to withstand routine mechanical abuse or abrasion at elevated temperatures. It is the gunning version of standard SAKONITE® castable.

Physical properties shown are average values of samples taken under controlled conditions
ASTM test methods used where applicable

Maximum Service Temperature: 2200°F (1204°C)

Dry Material Required per Cubic Foot : 136 lbs. (approximate)

Typical Water Required for Predampening (by weight) : 4% (approximate)

Bulk Density (pcf)

	<u>Gunning Data</u>	
After 220°F (104°C)	134 - 138	(1.95 - 2.07 g/cm ³)
After 1500°F (815°C)	128 - 132	(1.94 - 2.03 g/cm ³)
After 2000°F (1093°C)	127 - 131	(1.92 - 2.02 g/cm ³)

Cold Crushing Strength (psi)

After 220°F (104°C)	8000 - 9500	(280 - 420 kg/cm ²)
After 1500°F (815°C)	3100 - 4000	(70 - 140 kg/cm ²)
After 2000°F (1093°C)	1500 - 1800	(56 - 126 kg/cm ²)

Modulus of Rupture (psi)

After 220°F (104°C)	1000 - 1300	(70 - 105 kg/cm ²)
After 2000°F (1093°C)	300 - 400	(14 - 28 kg/cm ²)

Permanent Linear Change (%)

After 1500°F (815°C)	-0.1 to -0.5
After 2000°F (1093°C)	-0.3 to -0.4

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	32.3
Silica (SiO ₂)	46.1
Iron Oxide (Fe ₂ O ₃)	2.6
Titania (TiO ₂)	0.8
Lime (CaO)	16.5
Magnesia (MgO)	0.6
Alkalis (Na ₂ O+K ₂ O)	1.1

Standard Packaging: 55 lb bag. 72 bags per pallet. Bulk packaging available.

Brand Code: 0890

The properties shown on this data sheet represent typical average results 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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