



PRODUCT DATA

Brand Name: QUIKLITE 30

Description: QUIKLITE 30 is a medium weight insulating castable that can be cast or gunned. QUIKLITE 30 has a 3000°F maximum service temperature and a low iron oxide content, which is suitable for most furnace atmospheres. After the initial set, this product can be heated without using the traditional ramp-and-hold heatup schedule.

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

Maximum Service Temperature: 3000°F (1650°C)

Typical Water Required for Mixing (by weight) :

Casting 23 - 27%
Pre dampening for Gunning 6.0 - 8.0%

Dry Material Required per Cubic Foot:

Casting 88 - 93 lbs
Gunning..... 90 - 97 lbs

	Casting Data		Gunning Data	
<u>Bulk Density (pcf)</u>				
After 220°F (105°C)	95	(1.52 g/cm ³)	92	(1.55 g/cm ³)
After 1500°F (815°C)	91	(1.46 g/cm ³)	87	(1.31 g/cm ³)
<u>Cold Crushing Strength (psi)</u>				
After 1500°F (815°C)	600	(42 kg/cm ²)	500	(49 kg/cm ²)
<u>Modulus of Rupture (psi)</u>				
After 1500°F (815°C)	200	(14 kg/cm ²)	200	(14 kg/cm ²)
<u>Thermal Conductivity (K Factor)</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>	<u>BTU/ft²/hr./°F/inch</u>	<u>W/mK</u>
1000°F (538°C)	4.1	0.59	3.6	0.52
1500°F (815°C)	4.2	0.60	3.8	0.55
2000°F (1093°C)	4.8	0.69	6.7	0.97
<u>Permanent Linear Change (%)</u>				
After 1500°F (815°C)	-0.4 to 0.0		-0.6 to 0.0	

Typical Chemical Analysis (%)

(Calcined Basis)

Alumina (Al ₂ O ₃)	55.8
Silica (SiO ₂)	37.1
Lime (CaO)	4.2
Iron Oxide (Fe ₂ O ₃)	0.8
Titania (TiO ₂)	0.8
Magnesia (MgO)	0.2
Alkalies (Na ₂ O+K ₂ O)	1.1

Standard Packaging: 50 lb bag. 50 bags per pallet. Bulk packaging available.

Brand Code: 8876

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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