

## QUIKLITE 8

*QUIKLITE 8 IS A MEDIUM WEIGHT HEAT INSULATING CASTABLE WITH A SERVICE LIMIT TEMPERATURE OF 1540°C. QUIKLITE 8 HAS A LOW IRON CONTENT WHICH MAKES IT SUITABLE FOR MOST FURNACE ATMOSPHERES INCLUDING CO BOILERS. IT IS FORMULATED FOR RAPID HEATUP WITHOUT USING THE TRADITIONAL RAMP AND HOLD HEATING SCHEDULE. QUIKLITE 8 IS A MULTIPURPOSE PRODUCT WHICH CAN BE CAST OR GUNNED FROM THE SAME BAG.*

**MAXIMUM SERVICE TEMPERATURE (M.S.T.)** (1540°C)

**BULK DENSITY**

@ 110°C	93 - 100	LBS/FT <sup>3</sup>	1489 - 1602	KG/M <sup>3</sup>
@ 815°C	86 - 93	LBS/FT <sup>3</sup>	1378 - 1490	KG/M <sup>3</sup>

**COLD CRUSHING STRENGTH**

@ 815°C	500 - 1400	P.S.I.	35 - 98	KG/CM <sup>2</sup>
@ M.S.T.	1200 - 1800	P.S.I.	84 - 126	KG/CM <sup>2</sup>

**COLD MODULUS OF RUPTURE**

@ 815°C	100 - 300	P.S.I.	7 - 21	KG/CM <sup>2</sup>
@ 1095°C	200 - 300	P.S.I.	14 - 21	KG/CM <sup>2</sup>
@ M.S.T.	300 - 500	P.S.I.	21 - 35	KG/CM <sup>2</sup>

**PERMANENT LINEAR CHANGE**

@ Green to 110°C	0.0 TO - 0.1 %
@ 110°C to 815°C	0.0 TO - 0.3 %
@ 110°C to M.S.T.	- 1.0 TO - 1.5 %

**CONDUCTIVITY OR "K" FACTOR**

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
@ 540°C (1000°F)	3.8	0.55
@ 815°C (1500°F)	3.3	0.48
@ 1095°C (2000°F)	3.6	0.52

**TYPICAL CHEMICAL ANALYSIS (%)**

AL <sub>2</sub> O <sub>3</sub>	SiO <sub>2</sub>	Fe <sub>2</sub> O <sub>3</sub>	CaO	MgO	TiO <sub>2</sub>	ALK
46.0	43.5	0.8	6.5	0.3	0.8	1.2

The properties shown on this data sheet represent typical average results generated using standard ASTM test methods (unless otherwise noted) conducted under controlled conditions 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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# QUIKLITE 8

QUIKLITE 8 CAN BE READILY APPLIED BY GUNITE APPLICATION. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDE LINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMEN'S BY COLD GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1540°C)

## BULK DENSITY

@ 815°C                      95 - 105      LBS/FT<sup>3</sup>                      1520 - 1680      KG/M<sup>3</sup>

## COLD CRUSHING STRENGTH

@ 815°C                      900 - 1800      P.S.I.                      63 - 126      KG/CM<sup>2</sup>  
@ M.S.T.                      1000 - 1800      P.S.I.                      70 - 126      KG/CM<sup>2</sup>

## COLD MODULUS OF RUPTURE

@ 815°C                      200 - 350      P.S.I.                      14 - 24      KG/CM<sup>2</sup>  
@ M.S.T.                      300 - 500      P.S.I.                      21 - 35      KG/CM<sup>2</sup>

## PERMANENT LINEAR CHANGE

@ Green to 110°C                                              0.0 TO - 0.1 %  
@ 110°C to 815°C                                              0.0 TO - 0.3 %  
@ 110°C to M.S.T.                                              - 1.0 TO - 1.5 %

## CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT<sup>2</sup>/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	4.2	0.61
@ 540°C (1000°F)	3.9	0.57
@ 815°C (1500°F)	4.1	0.60

PACKAGING                      25 KG BAGS

POROSITY                      40 PERCENT @ 1000°F (540°C) (CAST)  
40 PERCENT @ 1000°F (540°C) (GUNITED)

ASTM CLASS C-401                      CLASSIFICATION "Q"