

PRODUCT DATA

QUIKLITE 3A

QUIKLITE 3A IS A LIGHTWEIGHT INSULATING CASTABLE WHICH HAS A SERVICE LIMIT TEMPERATURE OF 1370°C AND LESS THAN 1 PERCENT LOW IRON CONTENT. IT IS USED PRIMARILY WHERE REDUCING ATMOSPHERES MAY BE PRESENT. IT IS FORMULATED FOR RAPID HEATUP WITHOUT USING THE TRADITIONAL RAMP AND HOLD HEATING SCHEDULE QUIKLITE 3A CAN BE READILY APPLIED BY CASTING OR GUNITE APPLICATION.

MAXIMUM SERVICE	TEMPERAT	URE (M.S.T.)	<u>)</u> (13	870°C)	
BULK DENSITY					
0 110°C 0 815°C	64 - 70 57 - 62	LBS/FT ³ LBS/FT ³	1025 - 1121 913 - 993	KG/M ³ KG/M ³	
COLD CRUSHING S	TRENGTH				
0 815°C 0 1095°C 0 M.S.T.	300 - 450 300 - 450 400 - 550	P.S.I. P.S.I. P.S.I.	21 - 32 21 - 32 28 - 38	KG/CM ² KG/CM ² KG/CM ²	
COLD MODULUS OF	RUPTURE				
0 815°C 0 M.S.T.	100 - 200 150 - 250	P.S.I. P.S.I.	7 - 14 10 - 18	KG/CM ² KG/CM ²	
PERMANENT LINEA	R CHANGE				
0 815°C 0 M.S.T.		- 0.30 - 0.80	TO - 0.80 % TO - 1.30 %		
POROSITY					
@ 540°C		50 %			
CONDUCTIVITY OR "K" FACTOR					
<u>MEAN TEMP</u> @ 260°C (500 @ 540°C (100 @ 815°C (150 @ 1095°C (200	°F) 0°F) 0°F)	BTU/FT ² /HR/ ⁶ 1.40 1.60 1.70 1.85	°F/IN	W/mK 0.20 0.23 0.26 0.27	

TYPICAL CHEMICAL ANALYSIS (%)

AL 2O3	SiO2	Fe 2 O 3	CaO	MgO	TiO ₂	AlK
50.7	35.1	0.7	9.9	0.3	0.6	2.0

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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GUNNED DATA ON PAGE 2



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QUIKLITE 3A CAN ALSO 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 SERVIC	(1370°C)				
BULK DENSITY					
@ 815°C	65 - 75	LBS/FT ³	1040 - 1200	KG/M ³	
COLD CRUSHING STRENGTH					
@ 815°C	350 - 500	P.S.I.	25 - 35	KG/CM ²	
@ 1095°C	350 - 500	P.S.I.	25 - 35	KG/CM ²	
@ M.S.T.	350 - 500	P.S.I.	25 - 35	KG/CM ²	
COLD MODULUS OF RUPTURE					
@ 815°C	150 - 250	P.S.I.	10 - 17	KG/CM ²	
a 1095°C	150 - 250	P.S.T.	10 - 17	KG/CM ²	

6 010 C	130 - 230	F.S.I.	10 - 17	KG/CM
@ 1095°C	150 - 250	P.S.I.	10 - 17	KG/CM ²
@ M.S.T.	250 - 450	P.S.I.	10 - 17	KG/CM ²

PERMANENT LINEAR CHANGE

0	815°C	- 0.10	то	- 0.30 %
6	1095°C	- 0.30	то	- 0.60 %
0	M.S.T.	- 0.40	то	- 1.10 %

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT²/HR/[°]F/IN	W/mK
@ 260°C (500°F)	1.85	0.27
@ 540°C (1000°F)	2.35	0.33
@ 815°C (1500°F)	2.50	0.35

PACKAGING

25 KG BAGS

POROSITY 50 PERCENT @ 1000°F (540°C) (CAST) 45 PERCENT @ 1000°F (540°C) (GUNITED)

ASTM CLASS C-401 CLASSIFICATION "Q"

1.01APR09