

PUROLITE 30

PUROLITE 30 IS A HIGH TEMPERATURE LOW IRON, HIGH PURITY, LIGHTWEIGHT INSULATING CASTABLE WHICH CAN BE APPLIED BY CASTING OR GUNNING.

CAST DATA

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1650°C)

BULK DENSITY

@ 110°C	89 - 96	LBS/FT ³	1426 - 1537	KG/M ³
@ 815°C	84 - 91	LBS/FT ³	1345 - 1458	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	400 - 600	P.S.I.	28 - 41	KG/CM ²
@ 1095°C	400 - 700	P.S.I.	28 - 49	KG/CM ²
@ 1400°C	1300 - 1400	P.S.I.	90 - 97	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	200 - 250	P.S.I.	14 - 17	KG/CM ²
@ 1095°C	250 - 350	P.S.I.	17 - 24	KG/CM ²
@ 1400°C	900 - 1000	P.S.I.	62 - 69	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.10 TO - 0.70 %
@ 1095°C	- 0.10 TO - 0.80 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 540°C (1000°F)	4.10	0.59
@ 815°C (1500°F)	4.20	0.60
@ 1095°C (2000°F)	4.80	0.69

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
55.8	37.1	0.8	4.2	0.2	0.8	1.1

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. RESCO PRODUCTS disclaims any expressed or implied warranties based on this sheet. 01/08/13 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet

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GUNITED DATA

PUROLITE 30 CAN BE READILY APPLIED BY GUNITE APPLICATION. DATA SHOWN ARE THE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING."

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<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 540°C (1000°F)	3.60	0.51
@ 815°C (1500°F)	3.80	0.55
@ 1095°C (2000°F)	4.50	0.64