

RESCOLITE 20

RESCOLITE 20 IS A 50 LBS/FT³ INSULATING MATERIAL WITH LOW THERMAL CONDUCTIVITY WHICH IS NORMALLY USED AS BACK-UP INSULATION. MATERIAL CAN BE CAST OR GUNNED.
CAST DATA:

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1100°C)

BULK DENSITY

@ 110°C	50 - 57	LBS/FT ³	800 - 913	KG/M ³
@ 815°C	45 - 52	LBS/FT ³	720 - 840	KG/M ³
@ M.S.T.	50 - 57	LBS/FT ³	800 - 913	KG/M ³

COLD CRUSHING STRENGTH

@ 110°C	400 - 700	P.S.I.	28 - 48	KG/CM ²
@ 815°C	300 - 450	P.S.I.	21 - 31	KG/CM ²
@ M.S.T.	300 - 450	P.S.I.	21 - 31	KG/CM ²

COLD MODULUS OF RUPTURE

@ 815°C	100 - 150	P.S.I.	7 - 11	KG/CM ²
@ M.S.T.	100 - 150	P.S.I.	7 - 11	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.15 TO - 0.30 %
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MAXIMUM GRAIN SIZE 3/16 INCH 4.75 MM

TYPICAL WATER ADDITION TO CAST 50 - 60 % BY WT.

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 815°C (1500°F)	1.55	0.22

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	ALK
30.0	46.0	3.5	12.5	1.0	1.7	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. 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

RESCOLITE 20

RESCOLITE 20 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 SERVICE TEMPERATURE (M.S.T.) (1100°C)

BULK DENSITY

@ 815°C 50 - 60 LBS/FT³ 801 - 961 KG/M³

COLD CRUSHING STRENGTH

@ 815°C 300 - 450 P.S.I. 21 - 31 KG/CM²
@ 1095°C 300 - 450 P.S.I. 21 - 31 KG/CM²

COLD MODULUS OF RUPTURE

@ 815°C 100 - 150 P.S.I. 7 - 11 KG/CM²
@ 1095°C 100 - 150 P.S.I. 7 - 11 KG/CM²

PERMANENT LINEAR CHANGE

@ 540°C - 0.30 TO - 0.70 %
@ 1095°C - 0.30 TO - 0.90 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/HR/°F/IN</u>	<u>W/mK</u>
@ 260°C (500°F)	1.20	0.17
@ 540°C (1000°F)	1.30	0.19
@ 815°C (1500°F)	1.60	0.23

PACKAGING 20 KG BAGS

POROSITY 55 PERCENT @ 1000°F (540°C) (CAST)
53 PERCENT @ 1000°F (540°C) (GUNITED)

ASTM CLASS C-401 CLASSIFICATION "P"