RESCO
PRODUCTS (UK) LTD

INSULATING CASTABLES

PRODUCT DATA

RESCOLITE 20LI

RESCOLITE 20LI IS A LOW IRON INSULATING CASTABLE 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.) (1300°C)

BULK DENSITY

@ 110°C	52 - 60	LBS/FT³	800 - 913	KG/M³
@ 815°C	46 - 53	LBS/FT³	720 - 840	KG/M³
@ M.S.T.	52 - 60	LBS/FT³	800 - 913	KG/M³

COLD CRUSHING STRENGTH

@ 110°C	300 - 500	P.S.I.	28 - 48	KG/CM²
@ 815°C	200 - 400	P.S.I.	21 - 31	KG/CM²
@ M.S.T.	200 - 400	P.S.I.	21 - 31	KG/CM²

COLD MODULUS OF RUPTURE

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

PERMANENT LINEAR CHANGE

@ 815°C - 0.15 TO - 0.50 %

MAXIMUM GRAIN SIZE 3/16 INCH 4.75 MM

TYPICAL WATER ADDITION TO CAST 40 - 50 % BY WT.

STORAGE LIFE 2 YEARS UNDER DRY CONDITIONS

CONDUCTIVITY OR "K" FACTOR

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

TYPICAL CHEMICAL ANALYSIS (%)

AL_2O_3	SiO_2	Fe_2O_3	CaO	MgO	TiO_2	AlK
44.5	42.0	0.8	8.7	2.0	0.3	1.3

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

RESCOLITE 20LI

RESCOLITE 20LI 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.) (1300°C)

BULK DENSITY

@ 815°C	50 - 60	LBS/FT^3	801 - 961	KG/M^3

COLD CRUSHING STRENGTH

@ 815°C	300 - 450	P.S.I.	21 - 31	KG/CM^2
@ 1095°C	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
@ 1095°C	100 - 150	P.S.I.	7 - 11	KG/CM^2

PERMANENT LINEAR CHANGE

@ 540°C	- 0.10 TO - 0.50 %
@ 1095°C	- 0.30 TO - 0.90 %

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT^2/HR/°F/IN	W/mK
@ 260°C (500°F)	1.20	0.17
@ 540°C (1000°F)	1.30	0.19
@ 815°C (1500°F)	1.60	0.23

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

ASTM CLASS C-401 CLASSIFICATION "P"

1.8044