



Insulating Castables

RESCOCAST 3-20 RSP

RESCOCAST 3-20RSP IS A HIGH PERFORMANCE 40 lbs/ft³ INSULATING CASTABLE DESIGNED FOR INSTALLATION BY PUMPCASTING OR SHOTCRETING. ITS UNIQUE FORMULATION ALLOWS IT TO BE PUMPED BY EITHER LARGE PISTON PUMPS OR SMALL ROTOR-STATOR UNITS THIS GIVES THE CONTRACTOR THE OPTION TO USE THE PRODUCT IN BOTH HIGH AND LOW VOLUME SHOTCRETE INSTALLATIONS

MAXIMUM SERVICE TEMPERATURE 2000°F

IMPERIAL UNITS

PROPERTY	TEMP	PUMPED DATA		SHOTCRETED DATA		UNITS
		RANGE	TYPICAL	RANGE	TYPICAL	
Mixing Water		84 - 92	88	84 - 92	88	%
Bulk Density	220 °F	30 - 35	32	40 - 45	43	Lbs/ft ³
	1500 °F	27 - 32	29	37 - 42	40	Lbs/ft ³
Cold Crushing Strength	220 °F	100 - 150	125	125 - 200	150	Lbs/in ²
	1500 °F	70 - 125	100	100 - 200	125	Lbs/in ²
Permanent Linear Change	220 - 1500 °F	-0.6 to -1.5	-0.8	-0.5 to -1.5	-0.7	%
Porosity	815 °F	72 - 78	75	68 - 73	70	%
Conductivity or "K" factor	500 °F		1.20		1.39	BTU/ft ² /Hr/°F/in
	1000 °F		1.20		1.52	BTU/ft ² /Hr/°F/in
	1500 °F		1.45		1.65	BTU/ft ² /Hr/°F/in

CHEMICAL ANALYSIS

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
28.7	37.5	7.7	14.9	2.8	1.7	2.9

STANDARD PACKAGING 40x12.5Kg bags per pallet

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

METRIC DATA SHOWN ON PAGE 2





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MAXIMUM SERVICE TEMPERATURE 1100°C

METRIC UNITS

PROPERTY	TEMP	PUMPED DATA		SHOTCRETED DATA		UNITS
		RANGE	TYPICAL	RANGE	TYPICAL	
Mixing Water		84 - 92	88	84 - 92	88	%
Bulk Density	110 °C	480 - 560	1060	640 - 720	690	Kg/m ³
	815 °C	430 - 510	960	595 - 675	640	Kg/m ³
Cold Crushing Strength	110 °C	6.9 - 10.3	8.6	8.6 - 13.8	10.3	Kg/cm ²
	815 °C	4.8 - 8.6	6.9	6.9 - 13.8	8.6	Kg/cm ²
Permanent Linear Change	110 - 815 °C	-0.6 to -1.5	-0.8	-0.5 to -1.5	-0.7	%
Porosity	815 °C	72 - 78	75	68 - 73	70	%
Conductivity or "K" factor	260 °C		0.17		0.20	W/mK
	540 °C		0.17		0.22	W/mK
	815 °C		0.21		0.24	W/mK

CHEMICAL ANALYSIS

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
28.7	37.5	7.7	14.9	2.8	1.7	2.9

STANDARD PACKAGING 40-12.5Kg bags per pallet