

Insulating Castables

RESCOCAST 7 RSP

RESCOCAST 7 RSP IS A HIGH PERFORMANCE 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 2400°F

IMPERIAL UNITS

PROPERTY	TEMP	PUMPED DATA		SHOTCRETED DATA		UNITS
		RANGE	TYPICAL	RANGE	TYPICAL	
Mixing Water		22 - 26	24	22 - 26	24	%
Bulk Density	220 °F	78 - 88	83	90 - 100	95	Lbs/ft ³
	1500 °F	73 - 83	78	85 - 95	90	Lbs/ft ³
Cold Crushing Strength	220 °F	1500 - 2800	1600	2400 - 3500	3000	Lbs/in ²
	1500 °F	1100 - 2000	1300	1750 - 2750	2100	Lbs/in ²
Modulus Of Rupture	1500 °F	200 - 300	230	400 - 800	500	Lbs/in ²
Permanent Linear Change	220 - 1500 °F	0 to -0.3	-0.3	0 to -0.3	-0.3	%
Porosity	815 °F	38 - 43	41	36 - 41	38	%
Conductivity or "K" factor	500 °F		2.10		2.50	BTU/ft ² /Hr/°F/in
	1000 °F		2.35		2.80	BTU/ft ² /Hr/°F/in
	1500 °F		2.56		3.20	BTU/ft ² /Hr/°F/in

CHEMICAL ANALYSIS

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
37.9	39.3	5.3	11.8	0.8	1.7	1.7

STANDARD PACKAGING 40-25Kg 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 1316°C

METRIC UNITS

PROPERTY	TEMP	PUMPED DATA		SHOTCRETED DATA		UNITS
		RANGE	TYPICAL	RANGE	TYPICAL	
Mixing Water		22 - 26	24	22 - 26	24	%
Bulk Density	110 °C	1250 - 1410	1330	1442 - 1600	1520	Kg/m ³
	815 °C	1170 - 1330	1250	1360 - 1520	1440	Kg/m ³
Cold Crushing Strength	110 °C	103 - 193	110	165 - 248	207	Kg/cm ²
	815 °C	76 - 138	90	120 - 190	145	Kg/cm ²
Modulus Of Rupture	815 °C	14 - 21	16	28 - 56	34	Kg/cm ²
Permanent Linear Change	110 - 815 °C	0 to -0.3	-0.2	0 to -0.3	-0.3	%
Porosity	815 °C	38 - 43	41	36 - 41	38	%
Conductivity or "K" factor	260 °C		0.30		0.36	W/mK
	540 °C		0.34		0.40	W/mK
	815 °C		0.37		0.46	W/mK

CHEMICAL ANALYSIS

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
37.9	39.3	5.3	11.8	0.8	1.7	1.7

STANDARD PACKAGING 50-25Kg bags per pallet