

EXTREME SERVICE CASTABLES

PRODUCT DATA

RESCOCAST 17EM

RESCOCAST 17EM WAS ORIGINALLY DEVELOPED TO MEET THE REQUIREMENTS OF THE PETROCHEMICAL INDUSTRY FOR HIGHER OPERATING TEMPERATURES AND LOWER HEAT LOSSES. LOWER THERMAL CONDUCTIVITY IS THE RESULT OF USING A PATENTED SYSTEM OF RAW MATERIALS. THE SPECIAL RAW MATERIALS USED ALSO GIVE THE PRODUCT A HIGH RESISTANCE TO THERMAL SPALLING AND EROSION. RESCOCAST 17EM IS USED IN APPLICATIONS WHERE IT IS NOT PRACTICAL TO INSTALL THE MATERIAL BY VIBRATION CASTING OR GUNNING. TYPICALLY IT WOULD BE USED HANDPACKING INSTALLATIONS SUCH AS FIELD JOINTS.

MAXIMUM SERVICE TEMPE	RATURE (M.S.T.) (1370°C)					
BULK DENSITY						
0 110°C 115 - 1						
@ 815°C 108 - 1: COLD CRUSHING STRENGT						
@ 540°C 5500 - 79 @ 815°C 5000 - 79 @ 1095°C 4200 - 60	- 500 P.S.I. 385 - 530 KG/CM ² 500 P.S.I. 350 - 500 KG/CM ²					
COLD MODULUS OF RUPTURE						
@ 540°C 800 - 10 @ 815°C 700 - 10 @ 1095°C 600 - 80	000 P.S.I. 49 - 70 KG/CM ²					
PERMANENT LINEAR CHANGE						
@ 815°C @ 1095°C	- 0.10 TO - 0.30 % - 0.20 TO - 0.40 %					
EROSION LOSS (ASTM C-	704) LESS THAN 20.0 CC					

CONDUCTIVITY OR "K" FACTOR

MEAN TEMP	BTU/FT ² /Hr/°F/in	W/mK
@ 540°C (1000°F)	5.0	0.71
@ 815°C (1500°F)	5.6	0.80
@ 1095°C (2000°F)	6.1	0.87

TYPICAL CHEMICAL ANALYSIS (%)

AL 203	SiO ₂	Fe 2 O 3	CaO/MgO	TiO2	AlK
53.8	36.2	0.7	8.0	1.0	0.3

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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RESCOCAST 17EM

RESCOCAST 17EM CAN BE APPLIED BY THE GUNITE METHOD, HOWEVER IT IS
STRONGLY RECOMMENDED THAT RESCOCAST 17EMG BE USED FOR GUNITE
INSTALLATIONS. PREDAMPENING AND LONG "AGEING" TIMES WILL BE REQUIRED IF YOU DO NOT
USE THE GUNNING GRADE. DATA SHOWN ARE RESULTS OF TESTS FOLLOWING THE GUIDELINES
SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMEN'S BY COLD
GUNNING".

BULK DENSITY

@ 815 °C	109 - 115	LBS/FT ³	1745 - 1840	KG/M³
COLD CRUSHI	NG STRENGTH			
@ 540°C @ 815°C @ 1400°C	3000 - 6000	P.S.I. P.S.I. P.S.I.	385 - 455 210 - 420 175 - 350	KG/CM ² KG/CM ²
COLD MODULU	S OF RUPTURE			
6 540°C6 815°C6 1400°C		P.S.I. P.S.I. P.S.I.	56 - 70 49 - 70 42 - 60	KG/CM ² KG/CM ²
PERMANENT L	INEAR CHANGE			
@ 815°C @ 1095°C			0 - 0.30 %	

PACKAGING 25 KG BAGS

POROSITY 35 PERCENT @ 1000°F

EROSION LOSS ASTM C-704 LESS THAN 20.0 CC