

RESCOCAST 17EMG

RESCOCAST 17EMG GUNNING GRADE REFRACTORY WAS ORIGINALLY DEVELOPED TO MEET THE REQUIREMENTS OF THE PETROCHEMICAL INDUSTRY FOR HIGHER OPERATING TEMPERATURES AND LOWER HEAT LOSSES. THE SPECIAL RAW MATERIALS USED ALSO GIVE THE PRODUCT A HIGH RESISTANCE TO THERMAL SPALLING AND EROSION. DATA SHOWN ARE AVERAGE RESULTS OF TESTS FOLLOWING THE GUIDELINES SET FORTH IN ASTM C-903-70 "PREPARING REFRACTORY CONCRETE SPECIMENS BY COLD GUNNING".

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1370°C)

BULK DENSITY

@ 110°C	114 - 120	LBS/FT ³	1826 - 1922	KG/M ³
@ 815°C	108 - 115	LBS/FT ³	1730 - 1842	KG/M ³

COLD CRUSHING STRENGTH

@ 815°C	3000 - 6000	P.S.I.	210 - 420	KG/CM ²
@ 1095°C	2500 - 5000	P.S.I.	175 - 350	KG/CM ²

COLD MODULUS OF RUPTURE

@ 540°C	800 - 1000	P.S.I.	56 - 70	KG/CM ²
@ 815°C	700 - 1000	P.S.I.	49 - 70	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.1 to - 0.3 %
@ 1095°C	- 0.2 to - 0.4 %

EROSION LOSS (ASTM C-704)

LESS THAN 20.0 CC

TYPICAL CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 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 ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO/MgO	TiO ₂	AIK
50.4	38.0	1.3	8.5	0.6	1.1

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

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RESCOCAST 17EMG GUNNING GRADE MATERIAL HAS BEEN CAST IN THE LABORATORY AS A MEANS OF TESTING AND CONTROLLING THE QUALITY OF THE PRODUCT. IT IS NOT RECOMMENDED THAT THE MATERIAL BE APPLIED IN THE FIELD BY CASTING APPLICATION METHODS. THE RESULTS SHOWN BELOW ARE TYPICAL OF LABORATORY CAST SPECIMENS ONLY.

BULK DENSITY

@ 110°C	114 - 120	LBS/FT ³	1826 - 1922	KG/M ³
@ 815°C	108 - 115	LBS/FT ³	1730 - 1842	KG/M ³

COLD CRUSHING STRENGTH

@ 540°C	3500 - 6500	P.S.I.	245 - 455	KG/CM ²
@ 815°C	3000 - 6000	P.S.I.	210 - 420	KG/CM ²
@ 1400°C	2500 - 5000	P.S.I.	175 - 350	KG/CM ²

COLD MODULUS OF RUPTURE

@ 540°C	800 - 1000	P.S.I.	56 - 70	KG/CM ²
@ 815°C	700 - 1000	P.S.I.	49 - 70	KG/CM ²
@ 1400°C	600 - 850	P.S.I.	42 - 60	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.1 TO - 0.3 %
@ 1095°C	- 0.2 TO - 0.4 %

EROSION LOSS ASTM C-704 LESS THAN 20.0 CC