

RESCOCAST 17G

RESCOCAST 17G IS A HIGH TEMPERATURE, HIGH PURITY CASTABLE PROVIDING HIGH STRENGTH AND EROSION RESISTANCE THROUGHOUT IT'S ENTIRE TEMPERATURE RANGE. RESCOCAST 17G HAS BEEN FORMULATED FOR GUNITE APPLICATION WITH MINIMUM REBOUND LOSSES AND UNIFORM FLOW TO THE NOZZLE. 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.) 1650°C

BULK DENSITY

After 815°C 127 - 137 LBS/FT³ 2035 - 2195 KG/M³

COLD CRUSHING STRENGTH

After 815°C	3500 - 6500	P.S.I.	245 - 455	KG/CM ²
After 1370°C	4000 - 7000	P.S.I.	280 - 490	KG/CM ²
After 1510°C	6000 - 8000	P.S.I.	420 - 560	KG/CM ²

COLD MODULUS OF RUPTURE

After 815°C	800 - 1400	P.S.I.	56 - 100	KG/CM ²
After 1370°C	1000 - 1400	P.S.I.	79 - 100	KG/CM ²
After 1510°C	1200 - 1600	P.S.I.	85 - 110	KG/CM ²

PERMANENT LINEAR CHANGE

After 1095°C	0.00 TO - 0.35 %
After 1370°C	- 0.40 TO - 1.20 %
After 1510°C	- 0.70 TO - 1.40 %

EROSION LOSS ASTM C-704 LESS THAN 15.0 CC

CONDUCTIVITY OR "K" FACTOR

	<u>BTU/ft²/Hr/°F/in</u>	<u>W/mK</u>
@ 815°C	6.5	0.94
@ 1370°C	7.0	1.00
@ 1510°C	7.4	1.06

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	Alk	TiO ₂
53.2	40.2	0.7	4.3	0.2	0.2	1.2

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 17G

RESCOCAST 17G GUNNING GRADE MATERIAL HAS BEEN CAST IN THE LABORATORY FOR 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.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) 1650°C

BULK DENSITY

After 110°C	131 - 136	LBS/FT ³	2100 - 2180	KG/M ³
After 815°C	127 - 132	LBS/FT ³	2034 - 2115	KG/M ³

COLD CRUSHING STRENGTH

After 815°C	6500 - 8700	P.S.I.	450 - 600	KG/CM ²
After 1370°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²
After 1510°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²

COLD MODULUS OF RUPTURE

After 815°C	1200 - 1500	P.S.I.	85 - 105	KG/CM ²
After 1370°C	1500 - 1800	P.S.I.	105 - 125	KG/CM ²
After 1510°C	1700 - 2000	P.S.I.	120 - 140	KG/CM ²

PERMANENT LINEAR CHANGE

After 815°C	0.00	TO	- 0.30 %
After 1095°C	0.00	TO	- 0.35 %
After 1370°C	- 0.40	TO	- 1.20 %
After 1510°C	- 0.70	TO	- 1.40 %

EROSION LOSS ASTM C-704 LESS THAN 15.0 CC