



EXTREME SERVICE CASTABLES

PRODUCT DATA

RESCOCAST 17AG

RESCOCAST 17AG IS A HIGH TEMPERATURE, HIGH PURITY CASTABLE WITH LOW IRON AND LOW SILICA CONTENTS.. ALUMINA CONTENT OF 94 PERCENT GIVES THE PRODUCT A MAXIMUM SERVICE TEMPERATURE OF 1870°C. 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.) (1870°C)

BULK DENSITY

@ 110°C	170 - 180	LBS/FT ³	2723 - 2883	KG/M ³
@ 815°C	165 - 175	LBS/FT ³	2643 - 2803	KG/M ³

COLD CRUSHING STRENGTH

@ 540°C	5000 - 8000	P.S.I.	350 - 560	KG/CM ²
@ 815°C	5000 - 8000	P.S.I.	560 - 560	KG/CM ²
@ 1510°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²

COLD MODULUS OF RUPTURE

@ 540°C	800 - 1400	P.S.I.	60 - 105	KG/CM ²
@ 815°C	1000 - 1400	P.S.I.	70 - 105	KG/CM ²
@ 1510°C	1300 - 2000	P.S.I.	90 - 140	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.0 TO - 0.3 %
@ 1095°C	- 0.5 TO - 0.7 %
@ 1510°C	- 0.9 TO - 1.5 %

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>BTU/FT²/Hr/°F/in</u>	<u>W/mK</u>
@ 540°C	16.8	2.44
@ 815°C	16.5	2.39
@ 1095°C	16.7	2.42

TYPICAL CHEMICAL ANALYSIS (%)

AL ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	AlK
93.9	0.1	0.06	5.7	0.06	0.4

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



RESCOCAST 17AG

RESCOCAST 17AG 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

@ 815°C 175 LBS/FT³ 2800 KG/M³ (max)

COLD CRUSHING STRENGTH

@ 815°C 7000 P.S.I. 490 KG/CM² (min)

PERMANENT LINEAR CHANGE

Green to 110°C	-0.0 to - 0.1%
110°C to 815°C	-0.0 to - 0.3%

EROSION LOSS ASTM C-704

LESS THAN 14.0 CC