

RESCOCAST 17A

RESCOCAST 17A IS A VERY HIGH PURITY, LOW IRON, LOW SILICA HYDRAULIC SETTING CASTABLE FOR HIGH TEMPERATURE APPLICATIONS. LOW IRON AND LOW SILICA CONTENTS OF LESS THAN 0.1 TO 0.2 PERCENT MAKE RESCOCAST RS-17A AN IDEAL CHOICE FOR REDUCING ATMOSPHERES SUCH AS HYDROGEN AND / OR CARBON MONOXIDE.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1870°C)

BULK DENSITY

@ 110°C	170 - 176	LBS/FT ³	2723 - 2819	KG/M ³
@ 815°C	162 - 168	LBS/FT ³	2595 - 2691	KG/M ³

COLD CRUSHING STRENGTH

@ 540°C	9000 - 12000	P.S.I.	630 - 845	KG/CM ²
@ 815°C	8000 - 12000	P.S.I.	560 - 845	KG/CM ²
@ 1510°C	9000 - 14000	P.S.I.	630 - 985	KG/CM ²

COLD MODULUS OF RUPTURE

@ 540°C	1200 - 1800	P.S.I.	86 - 125	KG/CM ²
@ 815°C	1200 - 1800	P.S.I.	86 - 125	KG/CM ²
@ 1510°C	1800 - 2200	P.S.I.	125 - 155	KG/CM ²

PERMANENT LINEAR CHANGE

@ 815°C	- 0.10 TO - 0.30 %
@ 1510°C	- 0.90 TO - 1.50 %

EROSION LOSS (ASTM C-704) LESS THAN 12.0 CC

CONDUCTIVITY OR "K" FACTOR

<u>MEAN TEMP</u>	<u>W/mK</u>
@ 540°C	1.56
@ 815°C	1.41
@ 1095°C	1.40

TYPICAL CHEMICAL ANALYSIS (%)

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	AlK
94.9	0.1	0.1	4.6	0.1	0.2

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. 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 17A

RESCOCAST 17A IS ALSO AVAILABLE IN GUNNING GRADE FORM. IT HAS THE SAME CHEMICAL PURITY AS SHOWN ON THE FRONT PAGE. HOWEVER THE GUN GRADE MATERIAL IS FORMULATED TO GUN UNIFORMLY WITH MINIMUM REBOUND LOSS. BE SURE TO ORDER GUN GRADE MATERIAL FOR GUNITE APPLICATIONS.

BULK DENSITY

@ 815°C	165 - 175	LBS/FT ³	2600 - 2800	KG/M ³
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COLD CRUSHING STRENGTH

@ 540°C	5000 - 8000	P.S.I.	350 - 560	KG/CM ²
@ 815°C	5000 - 8000	P.S.I.	355 - 560	KG/CM ²
@ 1510°C	7000 - 10000	P.S.I.	490 - 700	KG/CM ²

COLD MODULUS OF RUPTURE

@ 540°C	1000 - 1500	P.S.I.	70 - 105	KG/CM ²
@ 815°C	1000 - 1500	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	- 0.10 TO - 0.60 %
@ 1095°C	- 0.50 TO - 0.70 %
@ 1510°C	- 0.90 TO - 1.50 %

EROSION LOSS (ASTM C-704) LESS THAN 15.0 CC