

PACOCAST 24AR

PACOCAST 24AR IS AN ACID RESISTANT PRODUCT, HAVING AN EFFECTIVE USE RANGE FROM A PH OF 3.5 TO 10.0. THE PRODUCT IS RECOMMENDED FOR STACKS, BREECHINGS, DUCTS, SCRUBBERS ETC., WHERE PRODUCTS OF COMBUSTION CAN FORM ACID CONDENSATES. PACOCAST 24AR IS AN ECONOMICAL ALTERNATIVE TO THE HIGHER PRICED PRODUCTS CURRENTLY BEING USED IN THE FIELD. THE PRODUCT CAN BE APPLIED BY GUNITE, CASTING OR TROWELLING.

MAXIMUM SERVICE TEMPERATURE (M.S.T.) (1100°C)

BULK DENSITY

| | | | | |
|-------------|-----------|---------------------|-------------|-------------------|
| After 110°C | 130 - 138 | LBS/FT ³ | 2082 - 2210 | KG/M ³ |
| After 815°C | 121 - 128 | LBS/FT ³ | 1938 - 2044 | KG/M ³ |

COLD CRUSHING STRENGTH

| | | | | |
|-------------|-------------|--------|-----------|--------------------|
| After 110°C | 1400 - 1800 | P.S.I. | 100 - 125 | KG/CM ² |
| After 540°C | 1500 - 2500 | P.S.I. | 105 - 175 | KG/CM ² |
| After 815°C | 500 - 3000 | P.S.I. | 105 - 210 | KG/CM ² |

COLD MODULUS OF RUPTURE

| | | | | |
|-------------|------------|--------|---------|--------------------|
| After 110°C | 600 - 1000 | P.S.I. | 42 - 70 | KG/CM ² |
| After 815°C | 300 - 500 | P.S.I. | 21 - 35 | KG/CM ² |

PERMANENT LINEAR CHANGE

| | |
|---------------|--------------------|
| 110°C - 540°C | 0.00 TO - 0.20 % |
| 110°C - 815°C | - 0.10 TO + 0.20 % |

CONDUCTIVITY OR "K" FACTOR

| <u>MEAN TEMP</u> | <u>BTU/FT²/Hr/°F/in</u> | <u>W/mK</u> |
|------------------|------------------------------------|-------------|
| @ 260°C | 4.00 | 0.49 |
| @ 540°C | 4.20 | 0.52 |
| @ 815°C | 4.60 | 0.57 |

TYPICAL CHEMICAL ANALYSIS (%)

| AL ₂ O ₃ | SiO ₂ | Fe ₂ O ₃ | CaO | MgO | TiO ₂ | AIK |
|--------------------------------|------------------|--------------------------------|-----|-----|------------------|-----|
| 26.0 | 58.7 | 3.0 | 9.6 | 0.3 | 1.2 | 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

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GUNITE DATA

PACOCAST 24AR can also be readily applied by gunite application. Data shown are average results of tests following the guidelines set forth in ASTM C-903 70 "Preparing Refractory Concrete Specimens by Cold Gunning".

BULK DENSITY

After 815°C 110 - 120 LBS/FT³ 1760 - 1920 KG/M³

COLD CRUSHING STRENGTH

After 110°C 1400 - 1800 P.S.I. 100 - 125 KG/CM²
After 540°C 1500 - 2500 P.S.I. 105 - 175 KG/CM²
After 815°C 1500 - 3000 P.S.I. 105 - 210 KG/CM²

COLD MODULUS OF RUPTURE

After 110°C 600 - 1000 P.S.I. 42 - 70 KG/CM²
After 815°C 300 - 500 P.S.I. 21 - 35 KG/CM²

PERMANENT LINEAR CHANGE

110°C - 540°C 0.00 TO - 0.20 %
110°C - 815°C - 0.10 TO + 0.20 %

PACKAGING

25 Kg bags

POROSITY

After 1000°F (540°C) 27 %