

### RESCOCAST 3-35AAG

**RESCOCAST 3-35AAG** is an insulating gun mix that is specially designed for coal gasification atmospheres. This product has an operating temperature up to 2200°F, with a good strength to density ratio, low iron content and low thermal conductivity values. It can be used as an insulating material in bi-wall linings and also as a single component lining, where erosive conditions are not too severe. Unlike loose fill or soft insulating block, **RESCOCAST 3-35AAG** will not settle or disintegrate under adverse conditions. 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:** 2200°F (1205°C)

**Bulk Density:** @ 815°C 50- 60 lbs/ft<sup>3</sup> (800 - 960 kg/m<sup>3</sup>)

**Cold Crushing Strength:**

|                 |  |
|-----------------|--|
| 1000°F ( 540°C) | 600-1000 psi (42-70 kg/cm <sup>2</sup> ) |
| 1500°F ( 815°C) | 600-1000 psi (42-70 kg/cm <sup>2</sup> ) |
| 2000°F (1095°C) | 700-1100 psi (49-77 kg/cm <sup>2</sup> ) |

**Permanent Linear Change(%):**

|                 |              |
|-----------------|--------------|
| 1000°F ( 540°C) | -0.3 to -0.7 |
| 1500°F ( 815°C) | -0.4 to -0.8 |
| 2000°F (1095°C) | -1.0 to -1.3 |

**Conductivity or "K" Factor:**

| Mean Temp.     | BTU/ft <sup>2</sup> /Hr/°F/in | W/mK |
|----------------|-------------------------------|------|
| 500°F (260°C)  | 1.10                          | 0.16 |
| 1000°F (540°C) | 1.25                          | 0.18 |
| 1500°F (815°C) | 1.55                          | 0.22 |

**Typical Chemical Analysis(%):**

| Al <sub>2</sub> O <sub>3</sub> | SiO <sub>2</sub> | Fe <sub>2</sub> O <sub>3</sub> | CaO  | MgO | TiO <sub>2</sub> | Alkalies |
|--------------------------------|------------------|--------------------------------|------|-----|------------------|----------|
| 61.2                           | 21.9             | 0.4                            | 13.3 | 0.2 | 0.1              | 2.9      |

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 3-35AAG

**RESCOCAST 3-35AAG** Gunning grade insulating Castable has been cast in the laboratory as a means of testing & controlling the quality of the product, It is not recommended that the material be applied in the field by casting application methods.

Test results shown below are typical of laboratory cast specimens only.

**Bulk Density:** @ 815°C

35 - 45 lbs/ft<sup>3</sup> (560 - 720kg/m<sup>3</sup>)

**Cold Crushing Strength:**

1000°F ( 540°C)

100-300 psi (7-21 kg/cm<sup>2</sup>)

1500°F ( 815°C)

100-300 psi (7-21 kg/cm<sup>2</sup>)

2000°F (1095°C)

150-350 psi (10-24 kg/cm<sup>2</sup>)

**Permanent Linear Change(%):**

1000°F ( 540°C)

-0.4 to -0.8

1500°F ( 815°C)

-0.5 to -0.9

2000°F (1095°C)

-1.0 to -1.3