RESCO
PRODUCTS (UK) LTD

# LOW CEMENT GUNNING GRADES

PRODUCT DATA

# ProGun LC 45 ALRG

***ProGun LC 45ALRG IS A 45% ALUMINA LOW CEMENT, ALUMINIUM RESISTANT GUN MIX WHICH IS IDEALLY GRAIN SIZED TO GIVE EXCELLENT GUNNABILITY, MINIMUM POROSITY AND LINEAR CHANGE WITH MAXIMUM DENSITY AND FIRED STRENGTHS. TYPICAL DATA BASED ON GUNNED SAMPLES :***

**MAXIMUM SERVICE TEMPERATURE (M.S.T.)** (1500°C)

**BULK DENSITY**

| | | | | |
|---|---|---|---|---|
| @ 815°C | 132 | LBS/FT³ | 2110 | KG/M³ |

**COLD CRUSHING STRENGTH**

| | | | | |
|---|---|---|---|---|
| @ 540°C | 6500 - 9000 | P.S.I | 448 - 621 | KG/CM² |
| @ 815°C | 7000 - 9000 | P.S.I. | 490 - 621 | KG/CM² |

**COLD MODULUS OF RUPTURE**

| | | | | |
|---|---|---|---|---|
| @ 540°C | 1000 - 1500 | P.S.I. | 69 - 103 | KG/CM² |
| @ 815°C | 1000 - 1500 | P.S.I. | 69 - 103 | KG/CM² |

**PERMANENT LINEAR CHANGE**

@ 815°C - 0.10 TO - 0.30 %

**EROSION LOSS(ASTM C-704) @815°C Less than 12.0cc**

**POROSITY** @ 815°C 26 %

**CONDUCTIVITY OR "K" FACTOR**

| | BTU/FT²/HR/°F/IN | W/mK |
|---|---|---|
| 500°F (260°C) | 7.50 | 1.07 |
| 1000°F (540°C) | 7.30 | 1.03 |
| 1500°F (815°C) | 7.40 | 1.07 |

**TYPICAL CHEMICAL ANALYSIS (%)**

| $AL_2O_3$ | $SiO_2$ | $Fe_2O_3$ | CaO | MgO | $TiO_2$ | BaS04 |
|---|---|---|---|---|---|---|
| 44.2 | 44.5 | 1.1 | 2.5 | 0.2 | 0.8 | 5.1 |

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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