

CORAL PLASTIC[®] 28-82 ADTECH[®]

Ref:194/27/01/14

Product Data

Description: High-alumina, phosphate-bonded plastic refractory.

- Features:**
- Ready to install, phosphate bonded plastic with a stiff, putty like consistency, no water additions or mixing required.
 - Can be installed in hex mesh or S bars with rubber mallets or small pneumatic bench rammers for fast, easy placement.
 - Provides excellent abrasion resistance.
 - Exhibits long life and allows ease of repair when required.

- Uses:**
- Where high abrasion resistance at temperature is required, such as in cyclones in petroleum applications, incinerators and wear pads.

Chemical Analysis: Approximate (Calcined Basis)

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|--|-------|
| Silica - SiO ₂ | 10.2% |
| Alumina - Al ₂ O ₃ | 82.4% |
| Titania - TiO ₂ | 2.1% |
| Iron Oxide - Fe ₂ O ₃ | 1.1% |
| Lime - CaO | 0.2% |
| Magnesia - MgO | 0.2% |
| Alkalies - Na ₂ O + K ₂ O | 0.2% |
| Phosphorus Pentoxide P ₂ O ₅ | 3.7% |

Physical Properties

| | Pressed Data |
|--|-------------------------|
| Maximum Recommended Temperature | 1700°C |
| Quantity Required | 2750 Kgs/m ³ |
| Modulus of Rupture - ASTM C491 | MPa |
| After Heating at 105°C | 5.0 - 10.0 |
| After Heating at 815°C | 10.0 - 15.0 |
| After Heating at 1095°C | 11.0 - 16.0 |
| Cold Crushing Strength - ASTM C133 and C865 | MPa |
| After Heating at 105°C | 15.0 - 30.0 |
| After Heating at 815°C | 30.0 - 40.0 |
| After Heating at 1095°C | 35.0 - 45.0 |
| Abrasion Loss - ASTM C704 | cc |
| After Heating at 815°C | < 5.0 |
| Permanent Linear Change - ASTM C179 | |
| After Heating at 815°C | 0.1% Shr |
| After Heating at 1095°C | 0.1% Shr |
| Shelf Life (Under Proper Storage Conditions) | 120 days |

Note: The test data shown are based on average results of control tests and are subject to normal variation on individual tests. These results cannot be taken as maximum or minimum requirements for specification purposes.

MSDS, Installation Guidelines and Dry Out Schedules are also available.