

# BENTOLITE L-3 PLASTICIZER

## Binder for Plastic Refractory Mixes

### Product Data

#### Special Features and Benefits

BENTOLITE L-3 is a specially processed magnesium aluminum silicate additive ideally suited for use as a binder and plasticizer for plastic refractory mixes. Its neutral pH and low impurity levels make it the best choice for mixes requiring long shelf life without loss of plasticity. In comparison with mixes containing conventional sodium bentonites, Bentlite L-3 plastic mixes maintain their tackiness, plasticity and shelf life for an extended period.

#### Typical Properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

|  |              |
|--|--------------|
| Color:   | Off White    |
| Moisture:                                      | 10 %         |
| Dry Particle Size, thru 200 mesh (74 microns): | 80 %         |
| Cation Exchange Capacity:                      | 100 meq/100g |
| pH, 2 % slurry:                                | 7.5          |
| Soluble Iron:                                  | <1 %         |
| Bulk Density, loose/packed, lbs/ft:            | 41/52        |

#### Typical Chemical Analysis, Wt %

|                                  |      |
|----------------------------------|------|
| SiO <sub>2</sub> :               | 74   |
| Al <sub>2</sub> O <sub>3</sub> : | 14   |
| MgO:                             | 3    |
| Fe <sub>2</sub> O <sub>3</sub> : | 1    |
| CaO:                             | 2    |
| Na <sub>2</sub> O:               | <0.5 |
| K <sub>2</sub> O:                | <0.5 |
| TiO <sub>2</sub> :               | <0.5 |
| Loss on Ignition.:               | 6    |

#### Recommended Levels

Addition levels of 3-5 % of BENTOLITE L-3 provide optimal binding and high green strength in high alumina phos-bonded mixes without harming the integrity of refractory properties.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

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