



# PRODUCT DATA

**Brand Name:** RESCO LR

**Description:** RESCO LR is a phosphate-bonded, 80% alumina, granular ramming mix that is used primarily in the steel industry. This product is installed by pneumatic ramming methods.

Physical properties shown are average values of samples taken under controlled conditions  
ASTM test methods used where applicable

**Maximum Service Temperature: 3000°F (1650°C)**

**Bulk Density (pcf)**

After 220°F (105°C) 182 (2.91 g/cm<sup>3</sup>)

**Cold Crushing Strength (psi)**

After 1500°F (815°C) 4000 (280 kg/cm<sup>2</sup>)  
After 2500°F (1371°C) 5000 (350 kg/cm<sup>2</sup>)

**Modulus of Rupture (psi)**

After 1500°F (815°C) 800 (56 kg/cm<sup>2</sup>)  
After 2500°F (1371°C) 1200 (84 kg/cm<sup>2</sup>)

**Permanent Linear Change (%)**

After 1500°F (815°C) -0.2 to 0.0  
After 2910°F (1600°C) +0.2 to +1.3

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	83.5
Silica (SiO <sub>2</sub> ) .....	9.8
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	1.3
Titania (TiO <sub>2</sub> ) .....	2.3
Lime (CaO) .....	0.2
Magnesia (MgO) .....	0.2
Phosphorus Pentoxide (P <sub>2</sub> O <sub>5</sub> ) .....	2.1
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.6

**Standard Packaging :** 50 lb bag, 50 bags per pallet

**Brand Code:** 0280

The properties shown on this data sheet represent typical average results using standard ASTM test methods (unless otherwise noted) conducted under controlled condition (using standard rectangular shapes), 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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