



# PRODUCT DATA

**Brand Name:** **DENSPAK**

**Description:** Denspak is a tempered ramming mix formulated with high purity chrome sands. Denspak can be used for applications such as maintenance of electric furnace

Physical properties shown are average values of samples taken under controlled conditions

ASTM test methods used where applicable

**Maximum Service Temperature: 3000°F (1649°C)**

**Typical Water Required for Mixing (by weight) :**

Ramming ..... 4.0%

**Bulk Density (pcf)**

	Ramming	
After 300°F (150°C)	200	(3.20 g/cm <sup>3</sup> )
After 1500°F (816°C)	205	(3.28 g/cm <sup>3</sup> )
After 2800°F (1538°C)	195	(3.12 g/cm <sup>3</sup> )

**Modulus of Rupture (psi)**

After 300°F (150°C)	1900	(133 kg/cm <sup>2</sup> )
After 2800°F (1538°C)	2300	(161 kg/cm <sup>2</sup> )

**Permanent Linear Change (%)**

After 1500°F (816°C)	-0.3
After 2800°F (1538°C)	-1.5

**Typical Chemical Analysis (%)**

(Calcined Basis)

Chromic Oxide (Cr <sub>2</sub> O <sub>3</sub> ) .....	44.6
Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	12.6
Magnesia (MgO) .....	11.3
Silica (SiO <sub>2</sub> ) .....	5.8
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	24.7
Lime (CaO) .....	0.13
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	0.9

**Standard Packaging:** 50 lb. bag, 72 bags per pallet. Bulk packaging available

Brand Code: 3020

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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