



# PRODUCT DATA

**Brand Name:** KC MIX

**Description:** KC MIX is a high performance insulating castable for a variety of kiln car applications. Its density is approximately 60 lbs/ft<sup>3</sup> and offers superior strength characteristics, as well as a high strength-to-insulation ratio. Use of this material at the base of kiln cars assures that under car temperatures remain well within required limits.

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

**Maximum Service Temperature: 2400°F (1316°C)**

**Typical Water Required for Mixing (by weight) :**  
Casting ..... 40.1%

**Recommended Mixing Time :** 3 - 4 minutes

<u>Bulk Density (pcf)</u>	<u>Cast Data</u>	
After 1500°F (815°C)	61	(0.98 g/cm <sup>3</sup> )

<u>Cold Crushing Strength (psi)</u>		
After 1500°F (815°C)	850	(60 kg/cm <sup>2</sup> )

<u>Permanent Linear Change (%)</u>	
After 1500°F (815°C)	-0.2

<u>Thermal Conductivity (K Factor)</u>	<u>BTU/ft<sup>2</sup>/hr./°F/inch</u>	<u>W/mK</u>
Mean Temperature		
500°F (260°C)	1.70	0.25
1000°F (540°C)	1.65	0.24
1500°F (815°C)	1.80	0.26

**Typical Chemical Analysis (%)**

(Calcined Basis)

Alumina (Al <sub>2</sub> O <sub>3</sub> ) .....	32.2
Silica (SiO <sub>2</sub> ) .....	49.7
Iron Oxide (Fe <sub>2</sub> O <sub>3</sub> ) .....	3.2
Titania (TiO <sub>2</sub> ) .....	1.0
Lime (CaO) .....	12.3
Magnesia (MgO) .....	0.5
Alkalis (Na <sub>2</sub> O+K <sub>2</sub> O) .....	2.2

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

Brand Code: 0174

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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