



Insulating Castables

Product Data

KC MIX

KC MIX is a high performance insulating castable for a variety of kiln car applications. Its density is approximately 60 lbs/cu.ft. 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.

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

Bulk Density:

After 1500°F (815°C): 55- 65 lbs/ft³ (880- 1040 kg/m³)

Cold Crushing Strength:

After 1500°F (815°C): 400-900 psi (28-63 kg/cm²)
After 2000°F (1095°C): 600-900 psi (42-63 kg/cm²)

Modulus of Rupture:

After 1500°F (815°C): 150-300 psi (11-21 kg/cm²)
After 2000°F (1095°C): 150-250 psi (11-18 kg/cm²)

Permanent Linear Change(%):

After 1500°F (815°C): -0.0 to -0.5
After 2000°F (1095°C): -0.4 to -0.8

Thermal Conductivity or “K” Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
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(%):

Al ₂ O ₃	SiO ₂	Fe ₂ O ₃	CaO	MgO	TiO ₂	Alkalies
31.8	48.3	2.8	14.8	0.1	0.6	1.6

Standard Packaging: 50-50 lb. bags per pallet

The properties shown on this data sheet represent typical average results generated 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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02/28/08 is the date that this data sheet was updated. Check with your RESCO sales representative or RESCO website to determine you have the current sheet

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KC MIX

GUNITED DATA

Data shown are the average results of tests following the guidelines set forth in ASTM C-903-70, "Preparing Concrete Specimens by Cold Gunning." Results will vary subject to normal variations in manufacturing, testing and installation procedures in the field.

Bulk Density:

70-80 lbs/ft³ (1120-1280 kg/m³)

Cold Crushing Strength:

After 1500°F (815°C)

500-900 psi (35-63 kg/cm²)

After 2000°F (1095°C)

250-450 psi (18-32 kg/cm²)

Modulus of Rupture:

After 1500°F (815°C)

300-500 psi (21-35 kg/cm²)

After 2000°F (1095°C)

250-450 psi (18-32 kg/cm²)

Permanent Linear Change(%):

After 1500°F (540°C)

-0.3 to -0.7

After 2000°F (1095°C)

-0.5 to -1.1

Conductivity or "K" Factor:

Mean Temp.	BTU/ft ² /Hr/°F/in	W/mK
500°F (260°C)	1.85	0.27
1000°F (540°C)	1.90	0.28
1500°F (815°C)	2.35	0.34