

INSULMIX 26LI

PNEUMATIC GUNNING MIX

General Information

INSULMIX 26LI is a low-iron, high purity insulating gun mix that is well suited for use in HPI applications, as well as a back up lining in boilers and industrial furnaces. This product may be used as a working lining in applications where there are no conditions which create high abrasion. Due to its high purity and low iron content, this insulating mix has good resistance to CO disintegration and is well suited for use in petrochemical use as a single component lining in FCC vessels, transfer and riser back up linings, waste heat boilers, back up linings in power boilers, hot air ducts, stacks, flues, heat treat furnaces and back up linings in cement preheat towers. INSULMIX 26LI exhibits excellent gunnability with low rebound.

Chemical Analysis		Maximum Use Temperature	1425°C (2600°F)
Al ₂ O ₃	41.3%	Material Required for Gunning (Rebound excluded)	1.52 g/cm ³ (95 lb/ft ³)
SiO ₂	43.0%	Material Required for Casting	1.44 g/cm ³ (90 lb/ft ³)
CaO	9.8%	Grain Size	4.75 mm (4 mesh) and finer
TiO ₂	2.3%	Installation Methods	Pneumatic Gunning, Vibration Cast
Fe ₂ O ₃	1.1%	Standard Packaging	25 kg (55 lb) multi-wall paper bags
MgO	0.5%	Standard Palletizing	107cm X 107 cm (42" X 42") pallets - 40 bags per pallet (1000 kg /2200 lbs)
Alkalies	1.6%	Note:	Bulk bags available upon request
Other	0.4%		

CAST DATA

Temperature		Density		PLC [†]	MOR		CCS		HMOR		Porosity	K-factor*		Abrasion Resistance
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	MPa	psi	%	Wm ⁻¹ K ⁻¹	BTUin ft ² hr ² F	cm ³
110	230	1.60	100	-	3.4	500	11.7	1700	-	-	-	-	-	-
815	1500	1.44	90	-0.1	2.6	380	8.3	1200	-	-	-	0.5	3.2	-
1100	2000	1.52	95	-0.4	2.1	300	4.3	625	-	-	-	0.5	3.6	-
1230	2250	1.47	92	-0.3	3.1	450	5.5	800	-	-	-	-	-	-

[†] Permanent linear change after firing

*Estimated

GUNNED DATA

Temperature		Density		PLC [†]	MOR		CCS		HMOR		Porosity	K-factor*		Abrasion Resistance
°C	°F	g/cm ³	lb/ft ³	%	MPa	psi	MPa	psi	MPa	psi	%	Wm ⁻¹ K ⁻¹	BTUin ft ² hr ² F	cm ³
110	230	1.65	103	-	4.0	575	16.5	2400	-	-	-	-	-	-
815	1500	1.52	95	-0.2	3.1	450	12.4	1800	-	-	-	0.5	3.6	-
1100	2000	1.60	100	-0.4	2.6	375	8.3	1200	-	-	-	0.6	4.1	-
1230	2250	1.51	94	-0.3	3.3	475	6.9	1000	-	-	-	-	-	-

[†] Permanent linear change after firing

*Estimated

SET TIMES AND WATER REQUIREMENTS

	Gunning	Casting
Water Required for Predampening	6 - 12%	n/a
Water Required	Determined at nozzle	25 - 40%
Working Time	n/a	1 hr
Initial Set	1 to 5 hr	2 to 10 hr
Final Set	2 to 18 hr	4 to 24 hr

Allied Mineral Products, Inc. supplies a complete line of monolithic refractories for industrial applications. For more information or a complete evaluation of your refractory requirements, please contact your local Allied representative.

Warning: Contains aluminum oxide, aluminosilicates, cement, and silica. The International Agency for Research on Cancer (IARC) has classified crystalline silica inhaled in the form of quartz or cristobalite carcinogenic to humans. Refer to Material Safety Data Sheet for additional information and disposal instructions. Avoid breathing dust. Wear NIOSH approved respirator during installation, removal, and disposal of product to prevent inhalation of dust. Avoid contact with skin and eyes. Cement powder or freshly mixed castable may cause eye and skin irritation. Steam spalling, which can lead to personal injury, may result from improper drying and firing procedures. In case of eye contact, flush immediately and repeatedly with water and consult a physician. For safest use and optimum performance, proper practices must be followed.

(ISM26LI)
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