Smoothset, Airset, K-Bond Mortars

Product Data Sheet

Product Description

Developed to complement our Thermal Ceramics dense and insulating firebricks in various thermal, chemical, and physical service conditions. Available in wet and dry grades, mortars will provide the convenience you want with the performance you need for practically every high temperature refractory application.

Smoothset™ is economical 1540°C (2800°F) mortar. Excellent for built-up shapes.

Airset™ is a 1650°C (3000°F) mortar excellent for built-up shapes of IFB or super duty Firebricks.

K-Bond™ mortar is an extra smooth and creamy consistency. It is good for mortaring IFB and Firebrick linings.

Properties	Smoothset Wet	Smoothset Dry	Air-Set Wet	Air-Set Dry	K-Bond Wet	K-Bond Dry	High-Temp
Manufacturing location	Americas	Americas	Americas	Americas	Americas	Americas	Americas
Material Grade	Wet, air setting	Dry, air setting	Wet, air setting	Dry, air setting	Wet, air setting	Dry, air setting	Dry, heat setting
Classification Temperature, normal oxidizing conditions, °C (°F)	1565 (2850)	1600 (2900)	1650 (3000)	1650 (3000)	1650 (3000)	1650 (3000)	1650 (3000)
Quantity required lb/1000 bricks NF1 size	250-320	180-240	397	308	353	286	220-250
Shelf life, months	3-6	12	6	12	6	12	12

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	Smoothset Wet	Smoothset Dry	Air-Set Wet	Air-Set Dry	K-Bond Wet	K-Bond Dry	High-Temp
Brick type recommended for use	IFB	IFB	IFB, Firebrick	IFB Firebrick	IFB Firebrick	IFB Firebrick	IFB, Firebrick
Water %, recommended							
trowel	-	29	-	31	-	20	26
dip	-	50	-	52	-	33	44
Chemical composition, %							
Alumina, Al_2O_3	36	38	41	40	47	47	45
Silica, SiO_2	57	58	53	53	47	48	50
Ferric Oxide, Fe_2O_3	0.9	1	1.4	1.4	0.9	0.9	1.3
Titanium Oxide, TiO_2	1.7	1.9	2	1.9	0.7	1.1	2.2
Calcium Oxide + Magnesium Oxide, CaO + MgO	0.3	0.3	0.3	0.3	0.2	0.9	0.3
Alkalis as Na_2O and K_2O	4	2.8	2.1	3.7	4.3	2.1	0.6

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