

Morgun AL



Product Description

A phosphate bonded gunning composition developed for lining and repairs to Aluminium furnaces.

Features

A phosphate bonded gunning mix with excellent thermal shock and resistance to molten aluminium.

Installation Method

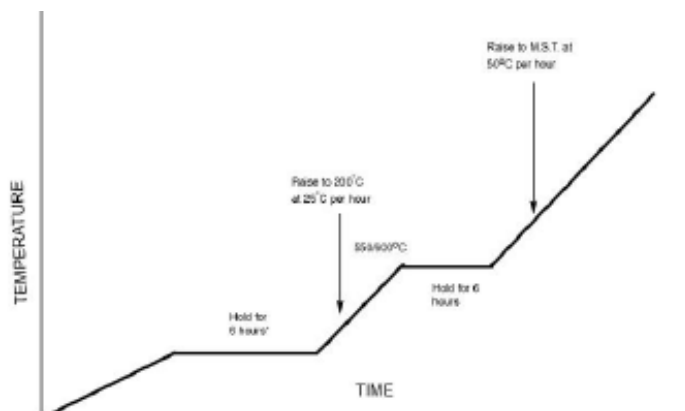
Gunning.

Datasheet

Prepared using EN BSI and ISO standard Methods.

Storage

Store bagged monolithics in a dry place, off the ground and, when possible, with the original shrink wrapping intact.



Precautions

Always use gloves and eye protection when using these materials. Also use a suitable mould release material - light grease.

Applications

Suitable repair material for metal contact areas in aluminium re-heat and holding furnaces.

Instructions for Use

Use suitable gunite equipment, either the rotary, double chamber or batch type. Add required water at nozzle for effective placement.

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CHARACTERISTICS	
Bond Type	Phosphate
Raw Material Base	Calcined Aluminosilicates
Maximum Grain Size (mm)	6
Maximum Service Temperature (°C)	1600
Bulk Density Dried to 110°C (kg/m ³)	2450
Net Material Required (kg/m ³)	2450

PHYSICAL PROPERTIES		
Test Temperature (°C)	Cold Crushing Strength (N/mm ²)	Permanent Linear Change (%)
110	16	
815	16	-0.1
1000	16	-0.1
1600	100	-1.25

TYPICAL CHEMICAL ANALYSIS (%)	
Al ₂ O ₃	75
SiO ₂	17
Fe ₂ O ₃	0.8
TiO ₂	1.5
CaO	1.4
MgO	0.2
Na ₂ O + K ₂ O	0.2
P ₂ O ₅	2

MODULUS OF RUPTURE (N/mm ²)	
110°C	N/A
815°C	N/A
ABRASION RESISTANCE ASTM C704 (cm ³)	
815°C	N/A
PALLET SIZE	
kg	1200

THERMAL CONDUCTIVITY		
W/mK		
@ mean temp	200°C	
	400°C	
	600°C	
	800°C	
	1000°C	
	1200°C	

WATER ADDITION	
% by weight	Added at Nozzle
Volume per Bag (l)	
Bag Weight (kg)	25

The values given herein are typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Therefore the data contained herein should not be used for specification purposes. Check with your Thermal Ceramics office to obtain current information or a Compliance Data Sheet where guaranteed property specifications are required. Before using these materials, it is strongly recommended that the installer consults Thermal Ceramics manual "storage and installation manual" copies of which are obtainable from Thermal Ceramics offices or distributors.

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