

Data sheet

Alcoat

ENGLISH

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Description

Alcoat is a high alumina wash material designed to coat refractory surfaces in contact with aluminium alloys. The wash is totally non-wetted by alloys and prevents build-up of dross. It is supplied ready mixed and is applied by brushing.

Features

- Ready mixed material which has excellent resistance to aluminium metal penetration and corundum resistance.
- Can be diluted with water.

Installation method

Painting.

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

Ensure that the surface to be coated is dust free. Avoid leaving open to the air as the coating will dry out.

Typical applications

- For molten aluminium applications where corundum growth protection is required and also the easy removal of dross.

Instructions for Use

Alcoat is supplied ready for use and can be applied with a brush.

It can be applied to the surfaces of fired or unfired refractories, insulation materials and cast iron. It is supplied ready mixed.

Use neat, applying 2 coats, allowing drying between applications.



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CHARACTERISTICS	
Bond Type	Air Setting
Raw Material Base	Alumina
Maximum Grain Size (mm)	0.5
Maximum Service Temperature (°C)	> 1600
Bulk Density Dried to 110°C (kg/m ³)	
Net Material Required (kg/m ³)	

PHYSICAL PROPERTIES		
Test Temperature (°C)	Cold Crushing Strength (N/mm ²)	Permanent Linear Change (%)
110	N/A	N/A
815	N/A	N/A
1000	N/A	N/A
1600	N/A	N/A

TYPICAL CHEMICAL ANALYSIS (%)	
Al ₂ O ₃	86
SiO ₂	0.2
Fe ₂ O ₃	0.2
B ₂ O ₃	13

WATER ADDITION	
% by weight	Supplied Ready Mixed
Volume per Bag (l)	
Bag Weight (kg)	

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	1000

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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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