

FICHE TECHNIQUE

“ARGICAL M1200S”

ARGICAL™ M1200S is a high reactive pozzolan (metakaolin) manufactured by a carefully controlled process of calcination and micronisation of a high quality kaolinitic clay.

ARGICAL™ M1200S is an amorphous silico-aluminate. Its general formula is $Al_2O_3 \cdot 2SiO_2$. It is constituted of lamellar particles.

The pozzolanicity of **ARGICAL™ M1200S** refers to its ability to react with Calcium Hydroxide and limestone, thus increasing strength and durability of cementitious products.

Application : In construction, **ARGICAL™ M1200S** is used in the manufacture of cements, concrete and drymix mortars. Its lamellar morphology and its synergy with Calcium Carbonate makes it perfectly suited for applications like tile adhesive, renders, technical mortars as well as high performance concrete.

ARGICAL™ M1200S is compliant with standard NF P18-513 (A - FH - WH).

ARGICAL™ M1200S can be used either :

- as an additive to improve properties such as consistency, durability, aesthetics of cementitious materials.
- as a pozzolanic material (or SCM) in larger quantities to partially substitute OPC.

Shelf life : For optimal performance, **ARGICAL™ M1200S** should be stored in its original packaging, in dry conditions from 5°C to 40°C and not in direct contact with the ground. When stored in these conditions, performance is guaranteed for a minimum of 24 months.

PACKAGING

Packaging	Bulk / Big Bags: 700 kg / 15 kg bags - 900kg pallet
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CHEMICAL ANALYSIS (%)

Usual Value

$SiO_2 + Al_2O_3$	95
Chloride	<0.1
Free Calcium Oxide	<0.1
Loss on Ignition	0.8

PHYSICO CHEMICAL PROPERTIES

Usual Value

Specification limit

Pozzolanic Index (Chapelle test)	1300 mg $Ca(OH)_2$ /g	>900 mg $Ca(OH)_2$ /g
Activity Index (28 days)	1.10	
Water Demand (W_{pl})	1.18	
Brightness	$L^* = 91$ $a^* = 0.07$ $b^* = 6.8$	$L^* > 88$
Specific Area (BET)	20m ² /g	
Specific gravity	2.4g/cm ³	
Bulk Density		LOOSE 250 kg/m ³ TAMPED 400 kg/m ³

Particle size distribution

Usual Value

Specification limit

> 63µm (wet sieving)	0.03%	
> 36µm (wet sieving)	0.17%	<1%
D50 (sedigraph)	1.5µm	

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