

TECHNICAL DATA SHEET METAKAOLIN L05 / LB05

1. Description

Metakaolin is a highly active pozzolanic material based on metakaolinite.

2. Application

Metakaolin is used for the production of concrete (shotcrete, high strength concrete, lightweight concrete, refractory concrete), mortars, sealants, insulations systems, fire protection systems, geopolymers, waterproof coatings for aggressive environments, sanitary ware and utility ceramics and as filler for composite materials.

3. Storage

Metakaolin should be kept in dry storage, in closed packages.
The storage period is unlimited.

4. Typical chemical and physical characteristics

		Typical value (Guaranteed value) Metakaolin L05	Typical value (Guaranteed value) Metakaolin LB05
Al ₂ O ₃	%	40,10 (min. 38,0)	37,50 (min. 35,0)
SiO ₂	%	54,10 (max. 57,0)	54,40 (max. 56,0)
K ₂ O	%	0,80 (max. 0,9)	1,10 (max. 1,3)
Fe ₂ O ₃	%	1,10 (max. 1,8)	3,50 (max. 4,0)
TiO ₂	%	1,80 (max. 2,0)	1,30 (max. 1,6)
MgO	%	0,18 (max. 0,4)	0,25 (max. 0,4)
CaO	%	0,13 (max. 0,2)	0,28 (max. 0,4)
Loss on ignition	%	2,20 (0,3 – 4,0)	2,20 (0,3 – 4,0)
Moisture	%	0,50	0,50
Specific surface	m ² /g	12,69	11,43

Pozzolan activity	°C	4,30 (min. 4,0)	4,60 (min. 4,0)
Whiteness	%	60,0	65
Granulation		D ₅₀ = 3µm; D ₉₀ = 10µm	D ₅₀ = 3µm; D ₉₀ = 10µm

5. Packaging

Metakaolin L05 and LB05 can be supplied in 25 kg bags and 500 kg big bags.