Different technologies for Metakaolins production



IMERYS Ukraine (VKV)

IMERYS U.S.

Multiple-hearths calciner



Torbed calciner

"Herreshoff type"

Advantages

Reliable equipment

- Energy consumption is controlled: 600-1200 KWh/t
- Better control of the calcination temperature

The state of deshydoxylation of MK is controlled afterwards **Drawbacks** CAPEX is about twice the one of a rotary kiln

IMERYS U.S.

Calcination cycle: 40min to 1h



Range of Imerys Metakaolins

Metakaolin	d50	Production	Kaolin source	Reactivity	Whiteness	Specific surface area (BET)
MK40	20 µm	Ukraine	Secondary	++	+	15 m²/g
Argical M1000	10 µm	France	Secondary	++	++	18 m²/g
Argical M1200S	2 µm	France	Secondary	+++	++	23 m²/g
Metastar 501	2 µm	U.S.	Primary	+++	+++	14 m²/g
Argical M50S (liquid)	1 µm	France	Secondary	+++		23 m²/g

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