

Magnesium Binder Produced from Natural Thermal Treated Brucite

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Magnesium cement (MC) is one of the advanced binders. Natural magnesium hydroxide (brucite) was fired at the different temperature and milled in laboratory mill up to high level of dispersive to obtain magnesium cement.

Brucite and magnesium cement was studied by XRD, DTA, EM.

At the preparation of samples solution of $MgCl_2$ was used. The properties of MC: strength, water requirement, setting time were studied.

In the result it can be noted that high quality magnesium cement would be produced by the sintering natural magnesium hydroxide at 600 °C.