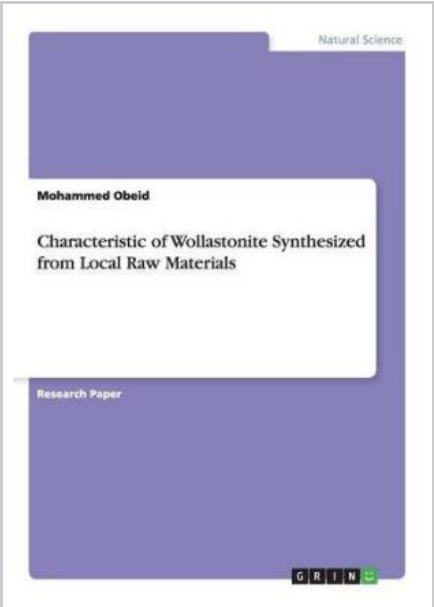


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Characteristic of Wollastonite Synthesized from Local Raw Materials

By Mohammed Obeid

GRIN Verlag Gmbh Apr 2015, 2015. Taschenbuch. Book Condition: Neu. 211x146x15 mm. This item is printed on demand - Print on Demand Neuware - Research Paper from the year 2014 in the subject Chemistry - Materials Chemistry, , language: English, abstract: In this study, wollastonite (CaSiO3) has been synthesized by solid state reaction method at temperature range of 1050-1300 C from local raw materials e.g. silica sand and limestone with addition of small amount of B2O3 as a mineralizer to activate the reaction process during sintering. The resulting products are investigated employing XRD and SEM techniques. -wollastonite was obtained at 1050 C and transformed to pseudowollastonite (-CaSiO3) at 1150 C. Physical and thermal properties have been evaluated. The batch sintered at 1250 C showed the highest value of density of about 1.98 g/cm3 with high shrinkage rate as compared with other batches. The results also revealed that thermal expansion coefficient is more compatible with results obtained from natural wollastonite. 8 pp. Englisch.

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