



Characteristic of Wollastonite Synthesized from Local Raw Materials

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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 (CaSiO_3) 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 B_2O_3 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 (CaSiO_3) 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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Reviews

Very helpful to all type of individuals. It really is rally interesting throgh looking at time. Its been designed in an extremely basic way which is just soon after i finished reading this pdf through which basically modified me, change the way i believe.

-- Tyshawn Brekke

The publication is easy in read through preferable to fully grasp. It is writter in simple phrases instead of hard to understand. You will not sense monotony at at any moment of your respective time (that's what catalogs are for concerning if you request me).

-- Kevin Bergstrom Sr.