



## VIRTUAL SEMINAR

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### Effect of Impurities (Na/Si) on Microstructure of Sintered Alumina

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Generally, three parameters effect the sintering behavior of an oxide ceramic powder i.e., alumina powder. These parameters are size, shape, and sinterability of alumina powder. Sinterability of a powder is affected by the impurities inside the powder. Therefore, each alumina powder has different sintering regime. In this study, the sinterability of a domestic alumina powder produced by Bayer process was investigated. The aim is to investigate how Bayer process main impurities (Na/Si) affect the sinterability of alumina powder and subsequently their sintering regime. On that purpose, domestic alumina powder was sintered by the conventional heating method. The sintering was carried out at various temperatures to determine the appropriate sintering regime.

Kindly invited.