

Effect of lead borate glass on microstructure and dielectric properties of barium titanate ceramics

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Abstract

The compacts of BaTiO₃ powder containing various amounts of PbO-rich PbO-B₂O₃ glass were sintered. SEM and X-ray diffraction analysis revealed a grain growth with increasing amount of glass and sintering temperature. These samples also shown dielectric constants greater than 2000 at room temperature and significantly lower losses.