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Study of variables in process for optimization dry pressing

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The dry pressing is a technique by which ceramic powder are consolidate inside a die, the advantages of this process is low cost and high production. However, process is susceptible to defects that persist in ceramic parts after sintering. The study is how about different values of relative humidity and temperatures influences the dry pressing in production of defects. To best comprehension of distribution and size defect, diametral compression tests are used to analyze the microstructure by scanning electron microscopy and measure the mechanical strength of parts remained in different conditions of relative humidity and temperature, and sintering in different temperatures.