

The presence of pores can also affect the mechanical behavior, which has been an issue during EBM of titanium components due to the presence of residual stress generated by the consolidation cycle 1 . Pore size and distribution within the mesh can be influenced by powder feeding parameters 1 ; however, the properties of the consolidated part remain largely unaffected by the pore size and the resulting porosity 3 . The aim of this study was to determine the influence of pore size, volume fraction and distribution on the mechanical properties of unnotched titanium components manufactured by EBM. To achieve this, two different powder particle size distributions were used. One powder consisted of ultrafine titanium particles while the other had fine titanium particles. The porosity of the unnotched parts was determined and the results showed that the EBM process is capable of producing high-quality, unnotched, dense parts with very low porosity 4-6 . Pore size and distribution are important concerns for all additive manufacturing applications but the larger pores associated with the ultrafine titanium powder in the present work pose a significant concern for the fatigue resistance of the parts due to the residual stress created during the additive manufacturing process. The presence of pores also leads to the formation of intergranular cracks during the fatigue test 7, 8 . Titanium is a material with a good fatigue resistance. However, fatigue crack propagation occurs if pores or intergranular stress concentrations are present in a material, due to the accumulation of stress through repeated loading cycles 9 .

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Ecm Titanium 1.61 Cracked

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