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氧化锆陶瓷拉伸试件的精密磨削

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PRECISION GRINDING OF THE ZIRCONIA WORKPIECE USED FOR TENSILE TEST

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摘要

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摘要 对氧化锆陶瓷拉伸试件的精密磨削进行了研究。提出了一种新型的成形修整装置,用于平型带弧金刚石砂轮的修整;并对表面粗糙度、弧型部分的廓形、试件的对称性等问题进行了探讨。

关键词: 氧化锆 陶瓷 精密磨削 成形修整

Abstract: Much attention is paid to the development and use of ceramic materials in China. Pre-precision grinding is of high importance to make use of ceramic materials in various areas of high technology. An investigation on the precision grinding of zirconia workpiece used for tensile test is reported. A new type of form dresser developed by the authors is used for truing and conditioning the arc-type diamond wheel. The surface finish, profile in the arc portion and symmetry of the workpiece are discussed.

Keywords: zirconia ceramics precision grinding form dressing

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