

THE WEAR OF THE DIAMOND WHEELS AT THE GRINDING OF CERAMICS

Authors

Alin RIZEA

University of Pitesti, Romania

Abstract

Oxide ceramics constitute one of the basic classes of neo-ceramics. As, after the sintering process of ceramic materials, the quality and the dimensional precision of the surface are not always satisfied, a supplementary processing is to be done. The cutting of these materials is accompanied by phenomena that are completely different from those specific to metal cutting. The grinding is a part of the chip removing processes with small chips or microchips. One of the phenomena that can influence the process of grinding is the wear of the diamond wheel.

Keywords

Grinding process, oxide ceramic, yttrium doped zirconia, wear, diamond tools