



Hardness to toughness relationship on WC-Co tool gradient materials evaluated by Palmqvist method

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Tool graded materials (TGM) incorporate gradual transitions in their microstructure and composition with distance. The gradients provide means to favourably engineer their thermo mechanical properties by changing the state of residual stresses, stress concentrations, driving force for crack growth, etc. However, prior to optimizing such gradients, a clear understanding of their effect on thermo mechanical properties is necessary. Then the influence of compositional gradients on the state of thermal residual stresses in WC-Co composites.

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