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Study of Corrosion Behaviour of Tungsten Carbide, Aluminium Chromo Nitride Coated and Diamond Like Carbone Coated End Milling Insert

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Abstract : The main objective of this research was to study the properties of tungsten carbide end milling insert with and without coating. The tungsten carbide without coating (UNC), Aluminium Chromium Nitride (AP3) and Diamond like Carbon (DLC) is a coating insert is carried out in this work. The corrosion test is carried out two chemicals namely base and acid media. Base is sodium carbonate and acid is Hydrochloric acid. The weight loss method is applied in the work. Additional the microstructures were carried out using Scanning Electron Microscope (SEM). The result shows that the DLC coated tool gives less corrosion.
Key words: coated insert, base, acid, inserts.

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