

# Tool Coating Development: A Historical Overview

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**Abstract:** *The development of tool coatings over time is evidence of human inventiveness and the ongoing effort to enhance machining techniques. Tool performance, tool life, and machining operation optimization have been the driving forces behind the development of tool coatings from the dawn of civilization to the present day of advanced materials research. The development of tool coatings from antiquity to the present is covered in detail in this research paper's extensive history. An analysis is conducted of significant turning points, discoveries, and technical developments in the tool coatings sector, emphasizing the revolutionary influence these developments have had on a range of industries*

**Keywords:** Coating, history, PVD, CVD

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