

September 16-20, 2018 China National Convention Center · Beijing



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	Abstract	Thanks to their exceptional hardness and wear resistance, cemented carbides are the best candidates to make efficient cutting and drilling tools by the powder metallurgy route. Known as a very hard ceramic material, tungsten carbide is used as the major component of cemented carbides. A ductile metal binder is added as the matrix, which in most cases is cobalt. The combination of hardness and ductility provides exceptional properties to the cemented carbide alloys. Nevertheless the use of cobalt as a binder is questioned by the new European regulation on chemicals. Therefore, new alternative binders are considered, especially Fe and Ni-alloys. Although these alloys have been investigated in the past, there is still a lack of knowledge about the sintering with these new binders and the effects on the final microstructures and properties of cemented carbides. In this work, the sintering behavior of WC-M alloys (M=Co, Ni, Fe) is discussed from the literature, from dilatometric results and microstructural observations at different stages. The effect of carbide solubility, diffusivity in the binder, C window, interface energies are particularly examined.
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