

Zr Stabilized Ti_5Te_4 -Type Hafnium Telluride

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A new Ti_5Te_4 -type compound, Zr stabilized hafnium telluride was discovered and characterized with electron crystallography. Microanalyses and preparative work show that Zr stabilizes Ti_5Te_4 -type hafnium telluride and destabilizes the competing phase, Hf_3Te_2 .

Key words: Hafnium, Zirconium, Ti_5Te_4 -Type Structure, Electron Crystallography