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## In-situ characterization at high temperature of VDM alloy 780 Premium

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Ni superalloys are used for high T applications that require good mechanical properties. The aim of reaching higher service T forces the development of new materials. VDM alloy 780 Premium has been developed for higher service T and this work shows its in-situ structural characterization by means of XRD and ND. The morphology is studied by SEM and SANS, the solvus T of the different phases is determined and the structural properties correlated with hardening of the materials.

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