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P4.095 Design and thermal coupling analysis of vpi mould for iter pf6 double pancake

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The ITER PF6 coil is composed by 9 double pancake(DP).The vacuum pressure impregnation(VPI)technology is an important process for double pancake manufacturing.The double pancake winding is contained within the VPI mould consisting of vacuum chamber and hard mould.The vacuum chamber provide the vacuum and pressure conditions required by VPI process,The hard mould provide the heating and shape requirements of VPI process.Using structure mechanics and thermodynamic analysis with finite element to check and optimize the DP VPI mould model.Check and optimize the DP VPI mould through actual VPI process of the Dummy double pancake.The results show that DP VPI mould can meet the requirement of VPI process By now,5 double pancakes(Include Dummy DP) VPI has been successfully accomplished.

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