

Oxydata



Implementation of an analysis by giving a reduced scale of the impregnation of oxide wick

Objectives : Developing numerical tools for process optimization: application to the case of wick impregnation for oxide ceramic composites




Context

- The elaboration of a material can go through several consecutive processes whose optimization to reach a specification is complex
- The realization of data-based models allows to establish a reasoned rather than empirical approach to optimization



Impregnation bath

Innovation 
New numerical tools developed by the IRT for process optimization



3K*
EUROS



24 CAT2
4 CAT3



3 impregnations
Dev. num. tools

Proposal

- Instrument the impregnation line to collect data
- Reduce the line to one of its critical elements: the impregnation bath
- Develop the digital tools to achieve the goal: 1/4" wick width