ONGOING: CMC SIC MI 2

Ceramic Matrix Composite



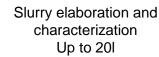
Objectif: Accelerate the development of SiC/SiC ceramic matrix composites on stage 1 for civil aeronautical applications (internal engine parts) up to 1200°C.

Solve control problems and repeatability of the material related in particular to the compaction of powders by relying on observations made in the MI furnace.

Platforms









Multi object injection



Multi-object siliciuration



3M









Safran Ceramics. L'Electrolyse, **12M**





Delivrables Staff Member

Platforms

Main activities

Process robustness (fixed-range control map, boundary conditions) and identification of key process parameters

Reduced range time \rightarrow Texture treatment, moulding, injection, cleaning, drying, siliciuration

Scale-up of multi-pieces that goes through the industrialization of injection molds and siliciuration tools → management of filtration problems, surface state control....

Identification of control systems on technological samples in process → automatist of visualization at siliciuration temperature

Reflection on ecodesign → eco-responsible cleaning system

