



"Finding the mineralogical key-parameters of kaolinite when used to produced cordierite for automotive catalyst support"

Univ. Limoges - IMERYS

Supervisors : Emmanuel Joussein, Lionel Bouche

Contact : Lionel.Bouche@imerys.com

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Descriptif :

The trainee will be hosted in Imerys Ceramics R&D center in Limoges. He will have to start with a bibliographical survey of the subject and then proceed a broad range of mineralogical analyses to define the morphology, cristallinity, structural chemical defects of the kaolinite minerals. The applicative value of this mineral in cordierite honeycomb for automotive catalyse support will be evaluated through indirect measurements (dilatometry and behaviour after extrusion). Finally, the results will be statically studied by doing Principal Component Analysis to evidence the key-parameters of kaolinite.