



“DESIGN AND CONSTRUCTION OF A BENTONITES RECYCLING LINE FOR THE PRODUCTION OF A HEAVY METAL ADSORBENT”

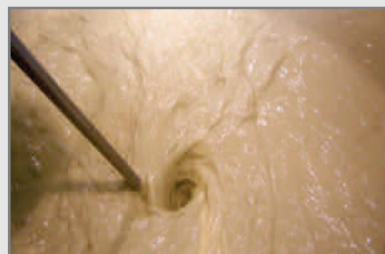
SUMMARY

The main objective of the project Bentomet is the design and construction of a line to recycle bentonites used at wineries in wine clarifying process with a production capacity of 50 kg/day.

The desired final product is a bentonite functionalized with magnetic nanoparticles of Fe_3O_4 , capable to adsorb heavy metals, removing them from different industrial polluted waters in a effectively and economical way.

The project has an important environmental advantage, not only because it proposes an eco-friendly method to remove heavy metals from water water, but also plans the reutilization of a subproduct which generates large amounts of CO_2 and needs a lot of water during its usual treatment.

Furthermore, the project Bentomet will test the efficiency of the obtained product through its incorporation in several industrial water treatment systems with the objective of offering a range of real solutions for different industrial processes.



PARTNERS

Centro Tecnológico Lurederra * (Spain)
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Coolrec BV (Netherlands)
Machinefabriek Otto Schouten BV (Netherlands)
**Coordinator*

STARTING DATE: July 2014
DURATION : 36 months
BUDGET: 948.529 €



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