

MUTAG provides efficient solution for coke oven effluent treatment

The German company Multi Umwelttechnologie AG (MUTAG) has been commissioned with the engineering of wastewater treatment plants in India and South Africa for two of the world's leading steel manufacturers. Construction works are foreseen to begin by the end of 2011.

In 2008, MUTAG launched a new carrier material for the biological treatment of wastewater, called Mutag BioChip™. After a large-scale testing period of several years in coke oven effluent, the paraboloid disc-shaped MBBR carrier media provide convincing results and have proved to be ideally suitable for the treatment of wastewater from coking plants.



Fig. 1: Mutag BioChip™

“It took us a lot of time to develop the Mutag BioChip™. Hence we are all the more glad about the carrier having confirmed all of our ambitious expectations,” says Dr.-Ing. Markus Geiger, board member of MUTAG. “Before the carrier was launched on the market more than two years ago, we already had obtained profound long-term experience in purifying coke oven effluents. The development of the BioChip carrier finally allowed us to implement our entire knowledge in practice,” he continues. “So we now have the possibility to offer complete coke oven wastewater treatment systems at highly competitive prices as the carrier's efficiency in COD degradation and in nitrification is notably superior to any other make available on the market.”

Indeed, according to the company's information, the active surface of this “high

performance carrier” accounts for 3,000 m²/m³ and has been proved in several comparative tests. It is therefore significantly higher than the surface provided by “conventional” MBBR carrier media. Not only have numerous experimental results given evidence of the remarkably persistent treatment process stability in COD/BOD₅ reduction as well as in nitrification, but also the several international projects executed by the company seem to support the arguments of its representative.

Dr.-Ing. Geiger: “The effluent treatment plants at coke oven factories in China, Poland and Germany run reliably and solidly for years now due to our Mutag MBBR Technology™. On the one hand, the Mutag BioChip™ allows increasing the treatment efficiency of existing wastewater treatment plants without any need for constructional changes. On the other hand, new MBBR treatment plants can be designed with a smaller footprint than usual. It is just a question of time that the advantages of this technology will be recognized by further steel producers as an optimal and sustainable solution for highly efficient coking plant wastewater treatment.”



Fig. 2: Coke oven wastewater treatment plant with Mutag BioChip™ in Poland

Contact: Multi Umwelttechnologie AG
Mr. René Trübenbach

Phone: +49 (0) 3771 59 86 87 55 | Fax: +49 (0) 03771 59 86 87 54 | Email: sales@mutag.de
Web: www.mutag-biochip.com or www.mutag.de

Figures for the article “MUTAG provides new carrier for coke oven effluent treatment”



Presentation of Mutag BioChip™ carrier media



Coke oven wastewater treatment plant with Mutag BioChip™ in Poland

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