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Nanocoatings for the Automotive Industry

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Abstracts

Brief Summary

Nanostructured coatings are beginning to find widespread application in the automotive industry as paint additives allowing for new coloration effects and greater hardness and durability. The sector aims to decrease weight while increasing engine efficiency and overall performance of the vehicles to be able to reduce CO2 footprint and therefore, energy consumption.

Coatings of different materials containing nanoscale carbides, nitrides, metals or ceramics play a key role in the performance of internal mechanical components of a vehicle, such as the engine. By reducing wear and friction nanoscale protective coatings increase the lifetime of the working material at the same time that they reduce the dissipation of energy as heat, thus increasing the efficiency of the vehicle.

The current market is estimated to around US$133million, rising to US$330million plus by 2015.

Report contents

Production methods and coating types
Market structures, market drivers and revenues
Company profiles

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