

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

Contents

1 EXECUTIVE SUMMARY

2 NANOCOATINGS FOR THE AUTOMOTIVE INDUSTRY

2.1 Production methods

2.2 Coating types

2.2.1 Anti-fingerprint

2.2.2 Anti-scratch/abrasion/wear-resistant

2.2.3 Anti-fouling and easy clean

2.2.4 Self-cleaning (bionic)

2.2.5 Self-cleaning (photocatalytic)

2.2.6 Thermal barrier

2.3 Market drivers

2.4 Market structure

2.5 Market revenues

2.5.1 World nanocoatings market revenues, automotive industry 2008-2015

3 TECHNOLOGY PROVIDERS (31 PROFILES)

Tables & Figures

TABLES & FIGURES

Figure 1: Market revenues for nanoscale protective coatings, 2009

Figure 2: Market revenues for nanoscale protective coatings, 2015 (Source: Future Markets, Inc).

Table 1: Market drivers for nanoscale protective coatings

Table 2: Market structure for nanoscale protective coatings market

Table 3: Methods for applying coatings to material surfaces

Table 4: Anti-fingerprint Coatings: Principles, Properties, Effects, Applications and Companies

Table 5: Anti-scratch/abrasion/wear-resistant Coatings: Principles, Properties, Effects, Applications and Companies

Table 6: Easy-to-clean Coatings: Principles, Properties, Effects, Applications and Companies

Table 7: Self-cleaning (Bionic) Coatings: Principles, Properties, Effects, Applications and Companies

Table 8: Self-cleaning (Photocatalytic) Coatings: Principles, Properties, Effects, Applications and Companies

Table 9: Thermal barrier Coatings: Principles, Properties, Effects, Applications and Companies

Table 10: Market drivers for nanoscale protective coatings

Table 11: Market structure for nanoscale protective coatings market

Table 12: World nanocoatings market revenues, automotive industry (Millions, US\$)

Figure 3: World nanocoatings market revenues, automotive industry (Millions, US\$).

Table 13: Nanocoatings for the automotive market-Types and application

Table 14: Nanocoatings for the automotive market-Companies and products

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