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PlasmaChem GmbH is a R&D innovative company specialising in nanomaterials, detonation-, vacuum-, plasma- and ultra-thin film technologies.

An important business line is development, production and sale of new products - Nanopowders (NanoDiamonds, NanoCeramics, NanoMetals, etc.). PlasmaChem has issued the First General Catalogue of Nanomaterials and Related Products, which besides of the regular products includes quantum dots and novel selfassembling molecules – tectomers. The company develops new nanomaterials constantly and is ready to perform a custom synthesis or modification of the existing products or develop a new technology.

Along with nanomaterials PlasmaChem developed new stable nanosuspensions (DiamoSilb® and AlumoSilb®) for electroplating and electroless deposition of metals, which significantly improve the mechanical properties of coatings. These products are currently used in the galvanic plant of Siemens AG.

Another application of nanomaterials was found in the car industry. PlasmaChem has developed a new formulation to engine oils on the base of nanodiamonds and nanographite, ADDO®. This additive allows to save fuel and oil as well as to increase the engine's power and life-time. Besides, it can be used by engine manufacturers for polishing and running-in procedure.

Since 1998 PlasmaChem GmbH produces new cardio-implants (stents) BioDiamond with biocompatible DLC-coating which serves as an effective barrier against leakage of heavy metal ions. A novel line of drug-eluting stents is being produced since 2004.

PlasmaChem has developed the novel technique for analysis of physical structure and molecular packing of surface top-layers with depth resolution of ca. 5 nm, and built a working measuring device Nano-Luminograph

You will find more information about PlasmaChem GmbH at www.plasmachem.com.