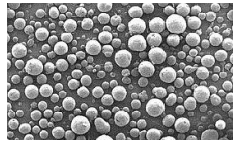
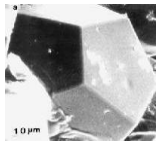
Nowadays, NANOCOM develops innovative technologies in the fields of metallurgy, energy saving, materials science, biotechnology and the creation of new composite materials.
In the near future, the company plans to be engaged in IT projects, special types of fabrics and technical rubber products.
We offer a variety of products and technologies that can be used in your business and for improvement of existing materials on the market.
The company “NANOCOM” is a registered resident of the innovation center “SKOLKOVO”

Modifier Powder Quasicrystalline


In friction units of mechanisms with oil lubrication:

- reduces friction losses (reduces temperature and noise of the friction pair operating under load);
- prevents the dragging and jamming of the friction pair elements;
- increases the time of emergency operation of machines and mechanisms in the conditions of oil loss and in the mode of "dry" friction.

In polymers:

- increases strength characteristics of polymers;
- increases the adhesion of the polymer matrix to the reinforcing elements of polymer composite materials (PCM);
- increases the strength of polymer composite materials and plastics.In polymers:
- increases strength characteristics of polymers;
- increases the adhesion of the polymer matrix to the reinforcing elements of polymer composite materials (PCM);
- increases the strength of polymer composite materials and plastics.

In polytetrafluoroethylene (PTFE, Teflon):

- increases the wear resistance of the material in 2200-3100 times (at a concentration of 16 vol.%).

In rubber:

- increases the strength characteristics of rubbers up to 25%;
- increases adhesion to metals to a level exceeding cohesion (destruction occurs on the rubber, peeling from the metal is absent).

In the glue:

- increases the strength of the glue;
- increases the adhesion of the adhesive to the surfaces to be glued.

In paint and varnish systems:

- increases adhesion to painted surfaces;
- increases the wear resistance of the paintwork.

Quasicrystals is a new class of materials, discovered in 1984, with unique properties. Currently, a lot of research is being carried out in the world in the field of application of quasicrystals in almost all areas of industry. An obstacle to the large-scale practical application of quasicrystals is the high cost of synthesizing this material.

NANOKOM has developed a unique technology that has reduced the cost of production to a level that provides the possibility of its application on an industrial scale.

Specifications:

Density: 4 g / cm3

Dispersion of the base powder: 1-10 µm

Steel Friction Coefficient: 0.14

Hardness: 800-1000 HV, Thermal conductivity: 2 W / (m · K)
Resistivity (at T room): 4.5 mOhm · cm

Proposal of collaboration

- Scientific collaboration - conducting research to find new areas of practical application of the quasicrystalline modifier and patenting the results and products obtained.
- Testing and implementation - carrying out test work on the implementation of the modifier in traditionally used materials and technologies to obtain additional economic effect, as well as new previously unattainable properties and characteristics of traditional materials.
- Creation of joint ventures - the creation of industrial alliances with large industry companies to localize the production of unique products and products using quasicrystals.
- Implementation of the modifier - fulfillment of commercial orders for the production and sale of the modifier in any industrial volumes.

43026, Moscow, The territory of the Skolkovo Innovation Center,

Bolshoy Boulevard, 42 bld.1, rm. 841

Email: info@nanocom.ru ; Tel.: 8 (495) 488-71-56; www.nanocom.ru