

# CarboGran

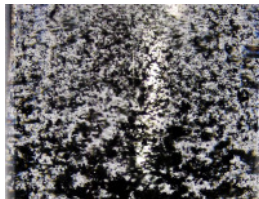


**CarboGran** is a dry and dustfree granulate of carbon nanotubes (CNTs) with excellent dispersion capability. **CarboGran** enables direct further processing without elaborate predispersion, making it extremely straightforward to import CNTs into industrial manufacturing processes.

Products of the **CarboGran** series are easily dispersed and dosed granulates of carbon nanotubes. **CarboGran** can be used direct in most manufacturing processes. Consequently, for the first time it shows the way for every user to safely and simply further process CNTs without the extra effort of predispersion.

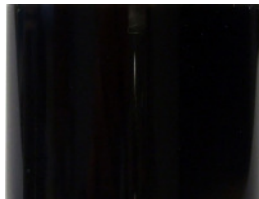
The positive features of **CarboGran** stem from the fact that the CNTs in the microgranulates are present in a form resulting in very good distribution and very pronounced separation of CNTs in liquids.

The picture on the right shows a mixture of commercial carbon nanotubes and water: **The CNTs agglomerate and immediately precipitate, so dispersion is not stable.**



A mixture of **CarboGran** and water on the other hand shows a completely different reaction.

**CarboGran** dissolves immediately, and the CNTs distribute evenly in the liquid. The result is stable dispersion with extremely fine distribution of particles.



The product advantages of **CarboGran** are:

- straightforward application through good solubility,
- randomly adjustable powder concentration in the application,
- extremely simple further processing by virtually all conventional mixers,
- safe handling through the dustfree nature of the product,
- unlimited stability in storage through dry presentation form.

**CarboGran** easily disperses by stirring it into water, alcohols, ethylene glycol and similar solvents. For media of higher viscosity – epoxy resin, paraffin and the like – all common mixing processes are suitable with somewhat higher shear force.

**CarboGran** can be processed into all water-based or water-compatible systems. It is used to create special electrical or mechanical properties in the end-product. Examples of **CarboGran** application include:

- coatings,
- surface finishing,
- adhesives,
- sealants,
- varnishes,
- ceramic slurry,
- building materials.

**CarboGran** can also serve as an additive in the manufacture of antistatic plastic flooring and coatings. Electrostatic discharge is effectively prevented and safety thus enhanced.