



Rasco-Energo
Graphene

What is graphene?



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Graphene

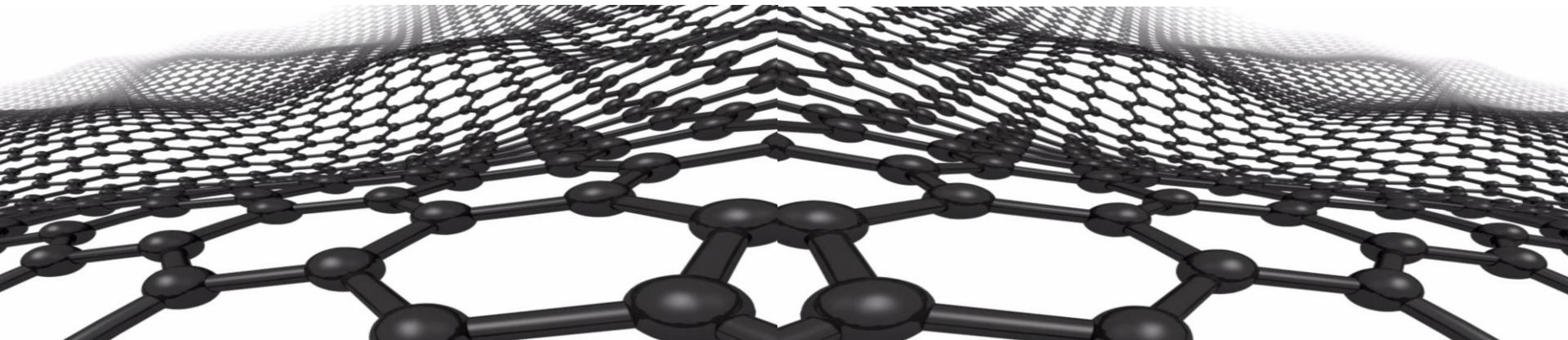
Graphene is the future

2D material, allotrope of carbon

The thinnest, strongest and lightest material in the world

Semiconductor, antistatic

Increases the quality characteristics of other materials

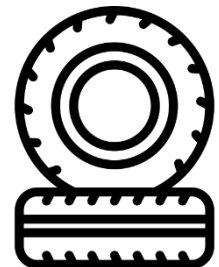
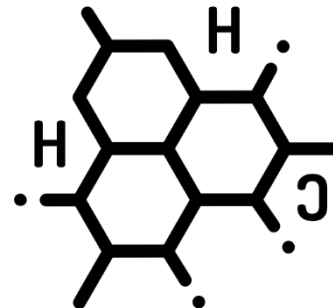
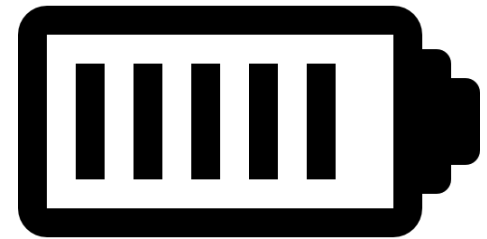


Graphene is used in the production of:



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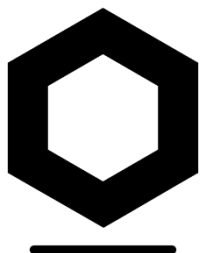
- Energy storage: accumulators, batteries and solar panels
- Epoxy resin, tires and cement
- Composite, polymeric and flame retardant materials
- Anti-corrosion, electrically conductive, anti-icing, paintwork and other coatings
- Heat-conducting and heat-dissipating polymer elements
- Chemical and gas sensors, infrared and optical biosensors
- Cosmetics
- Thermal underwear and sports equipment



Our advantages



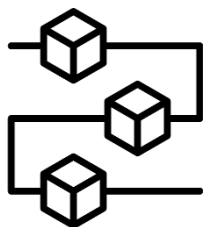
Rasco-Energo
Graphene



Progressive brand, leading distributor of high-purity few-layer graphene, worldwide shipping.



Eco-friendly production.



Consistent quality control using unique high-power ultrasonic equipment and independent institutions.

**Blueberry
Invest s.r.o.**

Part of Blueberry Invest s.r.o., which unites independent businesses including commercial, manufacturing, and R&D divisions.

Production capacity

Upscalable industrial volume production capacity



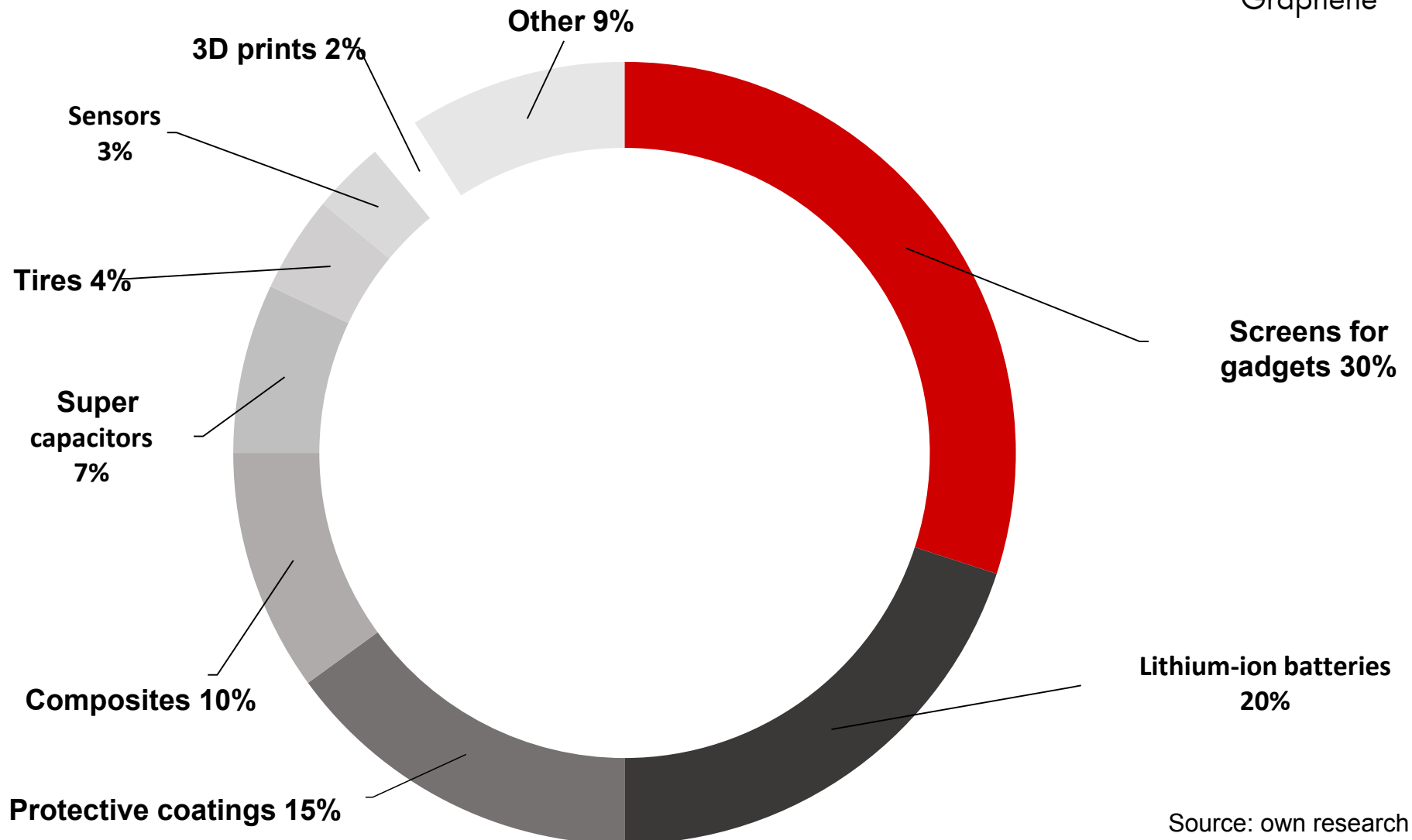
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Distribution of graphene application by segments



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Source: own research

Scheme for obtaining graphene



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The choice of graphene characteristics depends from its area application.
Our competencies include the production of few-layer graphene with 2-5 or 5+ number of layers.

Granules

Agglomerate

Globule

Particle

Graphene



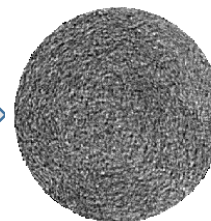
0,5-1,5 mm



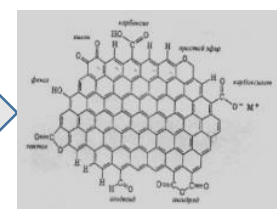
<0,1 mm



100-500 nm



10-500 nm



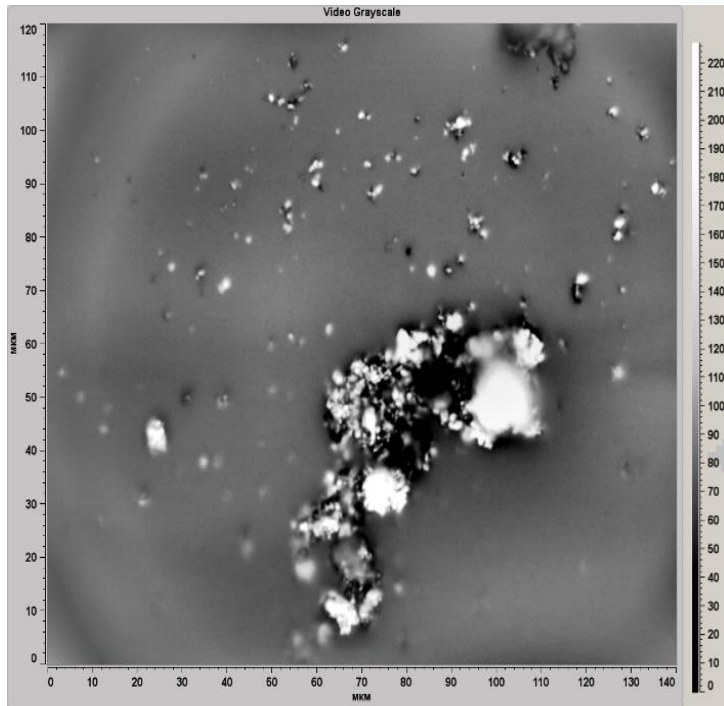
2-3 nm

Research results



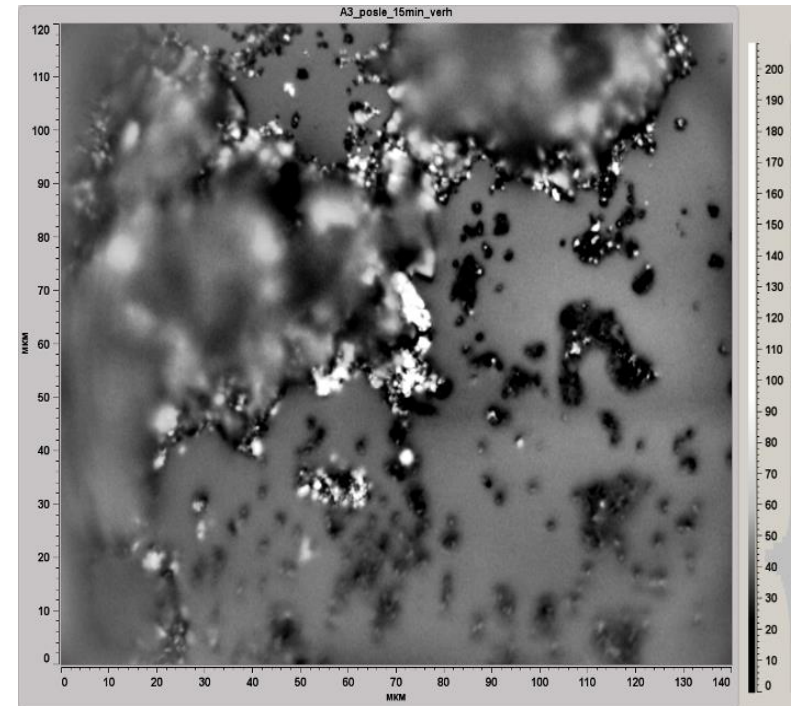
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Optical microscope view of our deposited DX-G2 type dispersion immediately after ultrasonic treatment



BRESSER-
LCD-50x-
2000x

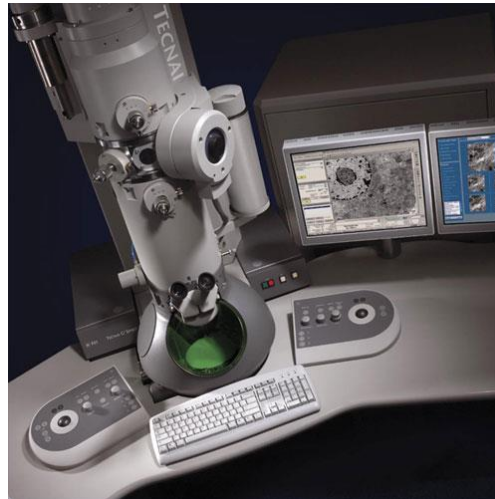
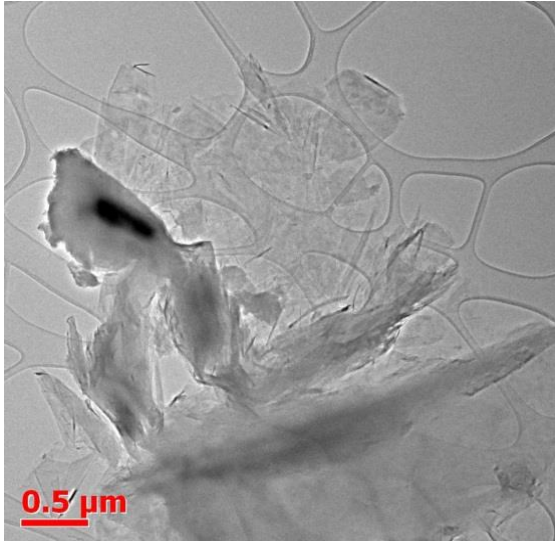
Graphene DX-G2, precipitation after 15 minutes of setting



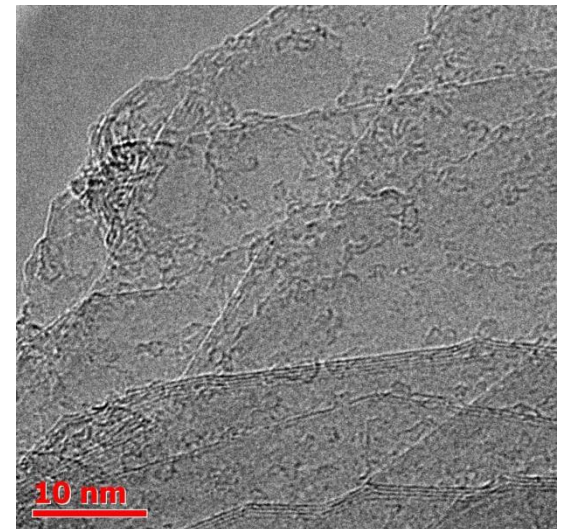
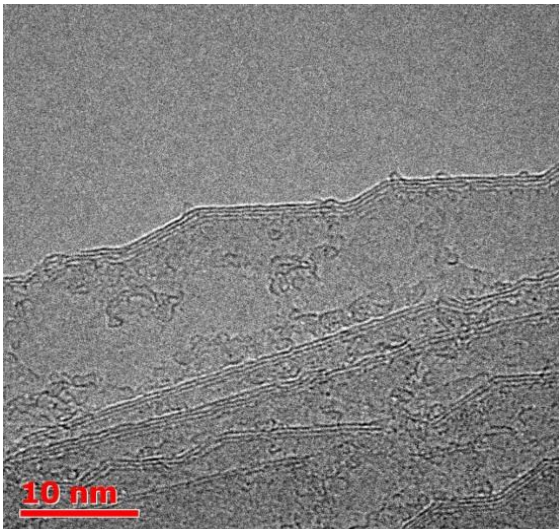
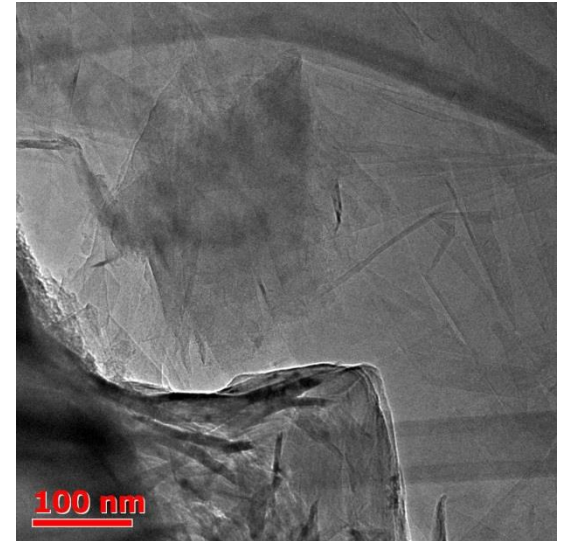
Micrographs of graphene



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Tecnaï G2 F20 TEM
FEI company,
Netherlands





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