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KRISHGEN BioSystems
OUR REAGENTS. YOUR RESEARCH.

POWDER NANOPARTICLES

Currently, two main groups of nanoparticles are offered:

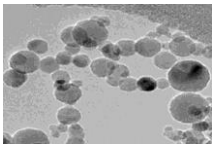
- **Catalogue nanoparticles**, available in a short period of time (2-3 weeks depending on the type, quantity and availability). These nanoparticles are usually, simple *nano*-oxides with small particle diameter and high purity. There are also a few complex *nano*-oxides available.

- **Customised nanoparticles**. We can produce a wide variety of mixed or complex nanoparticles under client specifications.

Simple nano-oxides

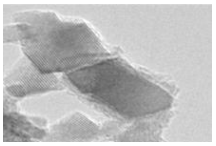
Aluminum oxide nanoparticles - gamma phase (*nano*-Al_2O_3)

Particle Average Size: 10-20 nm
Specific Surface Area: 82-165 m^2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



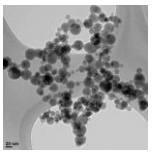
Cerium oxide nanoparticles (*nano*-CeO_2)

Particle Average Size: 5-10 nm
Specific Surface Area: 83-167m^2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



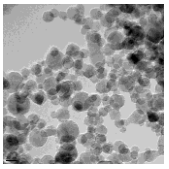
Iron (III) oxide nanoparticles (nano-Fe2O3)

Particle Average Size: 10-20 nm
Specific Surface Area: 61-123 m2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



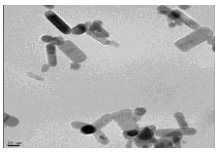
Titanium Oxide nanoparticles (nano-TiO2, mostly anatase)

Particle Average Size:[1] 15-25 nm
Specific Surface Area: 62-105 m^2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



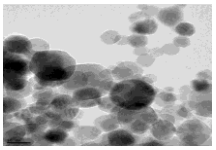
Zinc oxide nanoparticles (nano-ZnO)

Particle Average Size:[1] 30-40 nm
Specific Surface Area: 26-36 m^2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



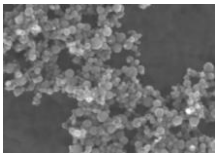
Zirconium oxide nanoparticles (nano-ZrO2)

Particle Average Size:[1] 15-25 nm
Specific Surface Area: 42-70 m^2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



Silicon oxide nanoparticles (nano-SiO2)

Particle Average Size:[1] 10-15 nm
Specific Surface Area: 152-229 m^2/g
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



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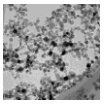
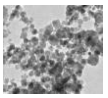
Ad-hoc complex nano-oxides

Using its advanced technology, we has the ability to produce a wide range of specialized complex nanoparticles with the same easiness and effectiveness than simple nanoparticles. Thus we offer products such as mixed nano-oxides of various elements, nano-oxides doped with different metals and even complex structures "core-shell" upon request of its clients in order to satisfy their specific needs.
Among this wide range of possibilities, some examples might be:

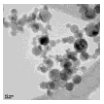
Nano-ZrO2 dopped 16% with Yttria (Yttrium Stabilized Zirconia, YSZ)
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



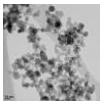
Nano-Fe2O3/CoO2
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



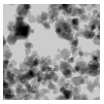
Nano-TiO2/ZnO (90% w/w ZnO)
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



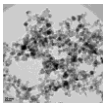
Nano- ZrO2 / CeO2(6% w/w CeO2)
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



Nano- ZrO2 / CeO2(18% w/w CeO2)
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



Nano- ZrO2 / CeO2(30% w/w CeO2)
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)



Nano- ZrO2 / CeO2 (50%) dopped with 2% Pd
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)

Nano- ZrO2 / CeO2 (50%) dopped with 1% Pt
Available formats: container of 100g, 500g and 1kg (weight of delivered nanopowder)

[1] *Calculated from the data of specific surface area (from BET isotherm).*