

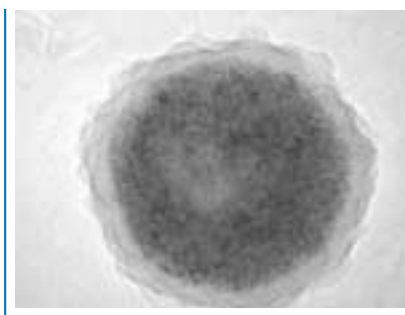
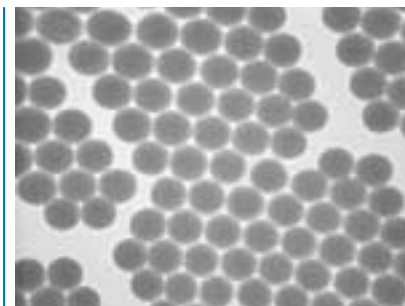


Precision makes our Beads
particularly suited...
... to your needs

ademtech

Superparamagnetic Nanoparticles

Precision manufacturing allows precise specifications



- **Ademtech** manufacture superparamagnetic nanoparticles of uniform size with a high degree of precision.
- **Adembeads** are produced by encapsulation of a magnetic oil ensuring that all particles have the same high magnetic content. The polymer shell provides the magnetic particles with a protective layer ensuring excellent dispersion properties and high functionalities.
- **Ademtech** manufacture standard products in 100 nm and 200 nm and 300 nm. This offers an increased surface area for binding and eliminates the sedimentation problems that affect larger particles.
- Rapid separation under magnetic field is not compromised due to the high magnetic content of the particles.
- Typical specifications are:
 - > High magnetic oxide content > 70 %
 - > Magnetisation at saturation 40 emu/g
 - > Bead density 1.8-2 g/cm³
 - > High surface area 15 m²/g (200 nm)

Adembeads - nanotechnology at work

Biologists now enjoy the benefits of magnetic particles without the drawbacks – with **Adembeads**. Thanks to precision manufacturing, **Adembeads** present all the advantages gained in using magnetic microparticles without compromising performance.

Adembeads are the perfect choice for biomolecules separation and immunoassays:

- > Controlled particles size guarantees precise measuring out of surface area.
- > Particles in suspension offer a large surface area for immobilising target molecules.
- > Particles can be readily separated from the suspension by applying a simple magnetic field.
- > The small size ensures that all particles do not sediment on standing, making them easier to use with large workloads and protecting the integrity of the surface characteristics.

Standard-Adembeads

Functionality	Diameter (nm)	Product description	Volume	Code Number
Carboxylic acid	100	Very high functionality	1-5-10 ml (5%)	02110-02111-02112
	200	Very high functionality	1-5-10-20 ml (3%)	02120-02121-02122-02123
	300	Very high functionality	1-5-10-20 ml (3%)	02130-02131-02132-02133
Amine	200	Very high functionality	3-15-30-60 ml (1%)	02220-02221-02222-02223
	300	Very high functionality	3-15-30-60 ml (1%)	02230-02231-02232-02233

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ADEMTECH SA
 Parc Scientifique Unitec 1
 4 Allée du Doyen Georges Brus - 33600 Pessac - France
 Tel: +33 (0)5 57 02 02 01 - Fax: +33 (0)5 57 02 02 06
 E-mail: ademtech@ademtech.com - www.ademtech.com



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