



# Spheromers<sup>®</sup> CA for coatings

## Chemical description

Spheromers<sup>®</sup> CA are perfectly spherical monosized beads made of cross-linked polymethyl methacrylate (PMMA).

## Main use

The extremely narrow particle size distribution ensures homogeneous and reproducible properties for your coatings. Spheromers<sup>®</sup> CA are available in 7 different particle sizes and smooth to coarse textured coatings can be designed accurately and reproducibly by choosing the ideal particle size.

## Typical values

### **Spheromers<sup>®</sup> CA6 CA10 CA15 CA20 CA30 CA40 CA60**

D<sub>90</sub> [μm]: 6 10 15 20 30 40 60

CV [%]: <5\*

Refractive index: 1.476-1.485

Oil adsorption [ml/g]: 0.212

Solubility: inert in most solvents

Particle density [g/cm<sup>3</sup>]: 1.2

Bulk density [g/cm<sup>3</sup>]: 0.6

\*CV % = (standard deviation/average bead diameter)X100

## Product properties

The combination of chemical composition and perfectly spherical shape ensure tough beads that contribute to impart burnish resistance, abrasion, polishing and scratch resistance.

Spheromers<sup>®</sup> CA has a refractive index that matches resin systems for clear coatings and is ideal for formulation of highly transparent varnishes without any milkiness or haze even for dark substrates.

## Applications

Spheromers<sup>®</sup> CA are suitable for a variety of coatings applications like plastic, film/foil, parquet, wood and metal/coil and can be used in both waterborne, radiation-cured, moisture curable as well as in solvent-based coatings. The choice of suitable bead size for a matting additive largely depends on the dry film thickness of the coating being formulated.

The different Spheromers<sup>®</sup> CA sizes can be blended and also be combined with other fillers or matting agents to achieve the required opacity, matting and structure.

Recommended addition level is 1-12% depending on bead size and application.

## Storage and handling

Storage stability is at least 5 years from the date of production when stored dry at temperatures below 25 °C in closed containers. Please close the innerliner of open boxes to avoid moisture pick-up and contamination.

## Packaging

Products are available in a 25 kg cardboard box with polyethylene innerliner and 450 kg (18 boxes) on each pallet.

## Material safety

Please consult the Safety Data Sheet

## Regulatory information

Please contact us for details.

[polymerbeads.lamberti.com](http://polymerbeads.lamberti.com)

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