



Cabot's Enova™ brand aerogel, formerly Nanogel, is pure aerogel in granular form, which can be used on its own or in conjunction with other materials to suit the specific needs of a wide range of systems. Each granule consists largely of air (>90%) contained in a nanostructure with pore sizes less than the mean free path of air molecules, which severely inhibits heat transfer through the material. Cabot produces Enova aerogel at its state-of-the-art manufacturing facility located near Frankfurt, Germany, where it began commercial production in 2003.



THE AMERICAS
 Cabot Corporation
 Cabot Aerogel
 157 Concord Road
 Billerica, MA 01821 USA
 p. 978 670 6266
 f. 978 670 7045
 aerogel@cabot-corp.com

EUROPE/MIDDLE EAST/AFRICA
 Cabot Corporation
 Cabot Aerogel
 Interleuvenlaan, 15 i
 B-3001 Leuven
 Belgium
 p. +32 16 39 25 78
 f. +32 16 39 25 79
 eu_aerogel_sales@cabot-corp.com

ASIA PACIFIC
 Cabot Corporation
 Cabot Aerogel
 15 Shuang Bai Road
 Shanghai 2011208
 China
 p. +86 21 5175 8800
 f. +86 21 6434 0002
 aerogel@cabot-corp.com



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CABOT AEROGEL • A BUSINESS OF CABOT CORPORATION



**Enova™ Aerogel Additives
 for High-Performance Coatings**





As demands on coatings manufacturers and their products increase, Enova™ aerogel additives have become the ideal solution for many formulations. Its extremely high surface area and porosity, paired with its distinctive chemistry are enabling the next generation of high performance coatings and limitless application possibilities.

Can your additive do all this?



Enova aerogel is safe for human and ecological systems, and is created through a closed loop process with little to no impact on the environment. In addition, its physical properties provide the following benefits to coatings formulators:

- Long shelf life with consistent performance
- Formulation flexibility
- Rheology control
- Dispersion stability
- Density reduction
- Carrier for functional actives
- Non-toxic and sustainable
- Low-VOC formulations enabled
- Sag resistance
- Low loading

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Depending on the application and performance needed, Enova™ aerogel usage levels can be adjusted for desired attributes such as gloss level, insulation, and rheology modification. Other attributes enabled in final form include:

- Wide range of service temperatures
- Moisture and corrosion resistance
- Coating clarity
- Delayed release of actives
- Burn protection



Incorporation and dispersion

As with traditional additives, Enova aerogel is intended for use as a post-additive in the coatings manufacturing process. Dispersion is typically carried out using standard equipment. Operating speeds and duration will vary with formulation type.

Unique combinations of Enova aerogel's standard characteristics create opportunities to improve performance in a variety of coatings applications.

Particle size	Microns to millimeters
Surface chemistry	Hydrophobic
Porosity	90-95%
High surface area	700-800m ² /g
Particle density	120-150kg/m ³
Optical	Translucent/opaque
Thermal conductivity	12mW/m-K
Contact angle	150°
Oil absorption (g DBP/100g particle)	540-650



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