

The Global Market For Nanofibers (Alumina, Polymer, Carbon, Cellulose) TO 2017

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Abstracts

SUMMARY

Global revenues for nanofiber-enabled products were an estimated US\$382.1 million in 2011, growing to around \$852.3 million by 2017. Main markets for polymer nanofibers are in air and water filtration, composites and textiles. Polymeric nanofibers account for the main bulk of the current revenues for nanofibers, finding application across a number of sectors. Alumina nanofibers are mainly used in filtration applications. Carbon nanofibers are beginning to find application across a raft of industries including electronics (heat management, EMI shielding, conductors), composites (polymers, resins, glass, ceramics, plastics), energy (batteries, catalysts and fuel cells) and medicine and life sciences (drug delivery, tissue engineering, implants) and carbon nanofibers represent the fastest growing market for nanofibers, especially in Li-Ion battery applications. Cellulose nanofibers are also beginning to make an impact in composites and electronics applications.

Leading players in the market include Ahlstrom, Dupont, Donaldson, Hollingsworth & Vose, Johns Manville, Kuraray, Mitsubishi Rayon, Teijin and Toray. Innovative up and coming companies involved in both the production and application of nanofibers include Elmarco, Fiberio Technology Corporation, Finetex and Nanoval. Leading application developers include NEC and Asahi Kasei.

This fully revised and updated this 59 page market study includes:

Technology description by nanofiber types and production methods

End user demand for nanofibers, by nanofiber type, forecast to 2017



Markets for nanocellulose, including aerospace and aviation, composites, electronics and photonics, energy, automotive, filtration, medicine and life sciences and textiles

Commercialization timelines to 2017, by nanofiber type

Producer, research centre and application developer profiles



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- 5.9 Catalytic Materials LLC
- 5.10 Catalyx Nanotech, Inc.
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- 5.14 Donaldson Company, Inc.
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- 5.18 Elmarco s.r.o.
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- 5.20 Esfil Tehno AS
- 5.21 FibeRio Technology Corporation
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- 5.28 Hollingsworth and Vose Company
- 5.29 Irema-Filter GmbH
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- 5.33 Kertak Nanotechnology
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- 5.46 Oji Paper
- 5.47 Paper and Fiber Research Institute (PFI)
- 5.48 PIDC International
- 5.49 Polynew, Inc.
- 5.50 Pyrograf Products, Inc.
- 5.51 Shenzhen Nanotech Port Co., Ltd.
- 5.52 Showa Denko



- 5.53 SNS NanoFiber Technology, LLC
- 5.54 Stora Enso Ltd
- 5.55 Teijin Fibers Ltd.
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- 5.57 US Forest Service/University of Maine
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