

Press Release



DSM Composite Resins
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DSM resins offers improved performance and environmental benefits on latest Dutch InterCity train. Date 26.03.08

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DSM Composite Resins offers improved performance and environmental benefits on latest Dutch InterCity train **€200,000 saved in construction and maintenance costs**

Schaffhausen, Switzerland, 26 March, 2008 - DSM Composite Resins has announced the benefits of new fibre composite nose and rear panels, which are being used by NPSP Compositen B.V. in the next generation of high-speed Dutch InterCity trains.

Using composite resins instead of metal for these parts will remove 1000 kg of weight from the train, which translate directly into cost savings and environmental benefits. Research by Dutch train operator NedTrain shows tangible results from using the new part:

- New nose panel saves around €200,000 in construction and maintenance costs throughout the lifetime of each train
- Running cost of train reduced by €0.50 per kilo, per year
- Substantial reduction in CO2 emissions per kilometre

DSM's resins are being used by NPSP in combination with a unique Vacuum-Assisted moulding process to produce the lightest possible front and rear panels for the new trains. NPSP's procedure allows larger parts to be moulded from DSM's resin than is usually possible.

Mark Lepelaar from NPSP explains the latest innovation in adding even more functional and environmental improvements to fibre and composite resin materials, "We will submit new products using DSM's composite resins for certification with the Dutch Train authorities, based on natural-fibres, as opposed to glass-fibres. The new products are better than traditional glass-fibre based products: while having comparable strength and fire-resistant

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properties, they are 10-30% lighter, and therefore take less energy to transport; they use less energy in production, and are far more environmentally friendly to dispose of. The natural fibre based composites should be ready for use in trains within 2-3 years. We are confident that we will reach this goal in close cooperation with DSM Resins”

DSM and Sustainability

DSM, as a Life Sciences and Materials Sciences company, strives for leadership in sustainability not only as a short-term differentiator but also as the long-term prerequisite for staying in business. Our core business areas embody sustainability by developing, manufacturing and marketing sustainable products to support a healthier, more sustainable and enjoyable way of life. The company develops products of superior quality and durability, which also have a low impact on the environment. Through technology and product innovation, DSM drives the industry by developing new categories in the resin industry and superior product solutions for customers.

About DSM Composite Resins

DSM Composite Resins is part of DSM Resins, a group within the Performance Materials cluster of DSM. It is the largest producer of structural resins in Europe and a leader in resins technology in the composites industry. The company is expanding globally, especially in China, targeting high added-value segments. Customers are supported via dedicated Competence and Expertise Centers and served via Euroresins, the company owned European FRP distribution business. DSM Composite Resins is the global market leader in sizings and binders production. These products provide vital functional and performance components used in the production of glass fibre reinforcements. DSM can claim unique competencies throughout the composites value chain.

**For more information contact visit the DSM Composite Resins website
www.dsmcompositeresins.com**