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Press Release

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System solutions in Wind Turbine Blades

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System solutions in Wind Turbine Blades

Due to strong economic growth in China energy use is significantly increasing. The Chinese market is next to traditional energy sources, like coal, natural gas, water and oil urgently looking for more availability and solutions to meet the growing demands in energy use. For this reason the Chinese wind turbine industry is rapidly developing and forces wind turbine blade producers to continuously look for faster and more efficient production of the wind turbine blades.

The wind turbine blade producers are also faced with a request for longer and bigger wind turbine blades that goes along with a growing complexity of demands in product technology. The exposure of wind turbine blades to high static and dynamic loads at a broad temperature range require high performance for the structural resins, adhesives and gel coats used for the production of the rotor blades. A perfect compatibility between resin and reinforcement is essential to meet these advanced requirements.

DSM Composite Resins anticipates on this fast growth of the wind turbine industry in China by developing new products and systems for this industry. In China DSM Composite Resins is supporting the wind turbine industry with resin products that are used in a fast infusion process and offers new products and technologies that are fast curing for all components. This means there is no need for long post curing cycles, which significantly saves production time & energy and at the same time reduces production costs.

With a right combination of vinyl ester, unsaturated polyester resin, glass reinforcement and sizing & binders, DSM offers wind turbine producers a high performing end product with advantages and qualities that levels epoxy based systems. Next to a broad product portfolio and product developments DSM Composite Resins offers technical support for the Chinese wind turbine blade producers in their challenge to meet the increasing industry requirements.

Technical service and material solutions for wind turbine industry in China

DSM Composite Resins manufactures and serves the Chinese wind turbine market directly from their production facilities in China (Nanjing and Shanghai). Since DSM is one of the leading global local resin companies all technical support and new product developments are of one global standard to better serve DSM's global and local wind turbine customers. DSM offers global & local production and technical support for the wind turbine industry in China with a high performance range of gelcoats and unsaturated polyester resins as well as a new range of toughened Atlac Enova resins and toughened vinyl ester bonding pastes.

On top DSM owns in house technology for state of the art sizing and binders, which protect the glass fiber from cracking and improve the interface between the glass fiber and the resin matrix. Sizings are a critical component on the strength and resistance of the final produced wind turbine blade. This means that by only changing from one type of sizing to another the impact on the product properties could vary 40% higher or lower. To directly support and serve the Chinese composite industry DSM Composite Resins recently opened a new sizing production facility in Shanghai.

About DSM Composite Resins

The DSM Composite Resins business unit is the European market leader in unsaturated polyester (UP) and is the global market leader in sizings and binders (DSM Neoxil) - vital functional components and performance enhancers used in the manufacture of glass fiber. Strategic focus is applied to cost efficiency and innovation in key drivers like weight reduction, cosmetics and chemical resistance. This guarantees continuous improvements in product portfolio, as well as ground-breaking new developments in both existing and new markets. DSM Composite Resins is expanding globally, especially in China, targeting high added-value segments such as wind turbine blades. (www.dsmcompositeresins.com)