

INFUSION TECHNOLOGY FOR WIND TURBINE BLADES



resoltech
ADVANCED TECHNOLOGY RESINS

Lower processing costs
Easy technology transition
Ambient temperature processing
and cure
No limits in blades size

Wind turbine blades went through a dramatic evolution in the past twenty years. While their size has grown to over 40 metres lengths, their construction progressed from wet layup to cored laminates made by infusing vinylester resin. Resoltech offers the next step in the development process: epoxy infusion materials and technology for stronger, larger and lighter blades.

Better technology

Resoltech has formulated a range of materials for blades manufacture: from high quality gel-coats and coatings to ultra low viscosity matrix systems, multiaxial and unidirectional reinforcements, structural adhesives and surface finishing fillers. The Resoltech 1800 epoxy system, to take an example, provides a viscosity of only 180cps and a TG of 130°C! Furthermore, better technology also means easier technology: ambient temperature cure, cheaper tooling, easier processing than some competing solutions.

Better economics

Performance and durability are just part of the equation. The wind energy business is cost-critical and blades must be manufactured in the most economical way. By offering a complete range of systems, Resoltech enables you to save costs. By using better infusion solutions such as KIS, you save as much as 40% on materials only, not mentioning cheaper tooling and disposables, reduced labour and waste.

In fact, the Resoltech technology allows to replace vinylester with epoxy while staying on a similar cost level.

Easy transition

Resoltech helps you developing your new manufacturing process, from technical proposal to services such as laminate testing, on site support, computer simulation of the infusion process and much more.

- Epoxy infusion systems: 1800, 1050 • Polyester gelcoat: 9040PX • Epoxy coating: 3010 •
- Epoxy adhesive: 3050 • Epoxy filler: 8020 • Multiaxial and unidirectional reinforcements •

The above list of products and services is not exhaustive. Please check with the sales department should you be unable to find the product or service you need. Resoltech reserves the right to amend this list without prior notice.

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TECHNOTES



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ADVANCED COMPOSITE TECHNOLOGY

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