

Technology Offer

Title:

Tailored polymerisation initiators for optimised and environmental friendly production of high quality resin-based composite parts (Ref: 10 DE 1486 3GM4)

(Open)

Abstract:

A medium sized Germany based company develops and manufactures organic peroxides as polymerisation initiators for unsaturated polyester resins in composite production. Partners sought are manufacturers of resin systems as well as all those composite producers formulating their resins systems themselves in-house. Joint development and technical cooperation, assistance and special application services are offered for product-oriented material optimisation.

Description:

With more than 50 years of experience in the production of organic peroxides, the company is operating state of the art production lines of all groups of peroxides used as polymerisation initiators in the field of curing unsaturated polyester resins. The application laboratories are equipped with all necessary tools and software in order to adjust recipes to customer needs and requirements. The exclusive distribution network in Europe also comprises regular meetings and practical work in the lab to keep up with latest industry trends and product developments.

Improvement of environmental sustainability in composite production

The company is expert for initiators free from phthalate and aromatic compounds and will enable customers to participate in this new development. They offer to help customers with their specific field of application, so they can take advantage from phthalate-free initiators.

Joint product development

Whether it's a small project or a unique application, the company will provide an initiator that could enhance the product. Besides delivering the initiator, they provide the expertise behind the chemical to ensure the product works better.

A specific Innovation Team works closely with customers as partners in the development of new products. The team focuses on becoming experts in the processes and key application areas of the customers. That way, they can actively work to deliver new ideas that can benefit the entire value chain.

Additional engineering support

Beyond being a material provider, the company has experts around manufacturing, dosing, handling and storing of organic peroxides. The company offers to look at the total application system, to calculate burst disks for tanks that may even contain pre-mixes with other chemicals.

Innovations and advantages of the offer

Many substances traditionally used in composite production are potentially hazardous for the environment and for human health. This is especially true for phthalates, which are not only toxic during production but may also damage the hormone system and fertility of humans using the final plastic parts. Avoiding hazardous substances is a major challenge in composite production. The company offers ecologic and economic innovations in this field:

- all ketone peroxides have been transferred to phthalate-free compositions for increased environmental safety

- additional new ketone peroxides have been developed and will be introduced in 2010

Current and Potential Domain of Application

Environmental friendly production of high-quality composite parts for any industrial sector

Other Profile Details

Organisation: Bayern Innovativ Bayerische
Gesellschaft für Innovation und
Wissenstra

Network Partner: Bavaria2Europe
Country: Germany
Entry Date: Mon, February 22, 2010
Validation Date:
Deadline: Sat, January 29, 2011

List of Keywords

Technology

- ✦ Coatings
- ✦ Moulding, injection moulding, extrusion, sintering
- ✦ Composite materials
- ✦ Fine Chemicals, Dyes and Inks
- ✦ Plastics, Polymers

Market

- ✦ Automobile parts
- ✦ Plastic fabricators
- ✦ Processes for working with plastics
- ✦ Coatings and adhesives manufactures
- ✦ Polymer (plastics) materials

Current Stage of Development

Available for demonstration

Exploitation of RTD Results

Private Research

Intellectual Property Rights

Secret know-how

Comments

Organisation/Company

Type: Industry
Size: 250-500

Collaboration Type

- ✦ Joint further development
- ✦ Adaptation to specific needs
- ✦ Technical consultancy

Comments

- Type of partner sought:

Industry

- Specific area of activity of the partner:

Manufacturers of resin systems as well as all those composite producers formulating their resins systems themselves.

- Task to be performed by the partner sought:

Use of the new ketone peroxide systems in their production; exchange of information, feedback on results and experience; optionally definition of requirements for specific new products.

Targeted Countries

ALL

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