

FIBRES RECHERCHE DÉVELOPPEMENT

Foundation

2008

Employees

< 10

Branches

- Advising and services
- Innovation programs
- Research & Development
- Market studies
- Strategic studies
- Biomass preparation and processing

Key biobased materials

- Powders and flours
- Fibers
- Shives and pellets
- Woven and non-woven materials
- Compounds

Key products

- Plant fibers and flours
- Plastic applications
- Composites
- Insulation applications
- Concretes





Fibres Recherche Développement®

Company

Fibres Recherche Développement (FRD) is a research and innovation



company dedicated to the promotion of natural fibres for use in materials (panels, insulation, concrete, plastics, composites, etc.). It was established in 2008 by 11 shareholders, either producers of natural fibres (flax, hemp, miscanthus, linseed flax, and wood) and from agricultural coproducts (cereals straws, vine shoots...) or actively working to promote bioresources (ARD, Sofiprotéol). FRD now brings the majority of French natural-fibre producers and processors together.

Products and materials solutions

FRD develops green, ready-to-use material solutions.

Thanks to FRD-Lab, the first French technological platform dedicated to the extraction and characterization of natural-based fibres and coproducts for material end-uses, FRD is able to:

- supply manufacturers with materials, pellets and fibre samples with application-specific characteristics so they can perform preliminary formulation and design tests for innovative products;
- offer technical support to fibre processors by helping them to adapt their extraction processes over the mid or long term, optimize their quality approach and prepare technical data sheets for their products;
- help partners develop R&D programs;





FRD also offers a complete range of biobased reinforcement materials (pellets, powders, short and long fibres, woven and nonwoven fabrics, shives, unidirectionals, multiaxials, etc.) that can be tailored to the target product specifications. Thermoplastic compounds reinforced with natural fibres can also be developed on demand.







Engineering Platform for projects

FRD benefits from a range of skills that are applicable to the design and development of innovative materials:

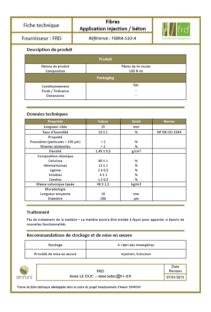
- data base of market, products, specifications, process, resource;
- enhancement of the performance of bio-based materials by transformation and functionalization;
- formulation of materials incorporating natural fibres;
- analysis and quality management;
- support to R&D projects development;



FRD applies its expertise to implementing innovation & research projects on the design or improvement of biosourced materials for thermoset and thermoplastic composites, plastics, insulation, panels, concretes, textiles applications...

FRD can also support fibre producers and industrials for the creation and the structuring of sources of supply of biomasses.

Technical support and services



To support its customers and partners, FRD offers technical support in several main fields:

- highlighting the potential of naturalbased materials: training on natural fibres, their performance and potential uses, and the processing methods used:
- innovate and design bio-based composite materials: support on developing

innovative materials based on natural fibres, assistance on using natural fibres to replace mineral or synthetic fibres;

guaranteeing the supply of natural fibres and reinforcements: supply-chain strategy definition, disposal of materials in compliance with industrial specifications, control

and approval of incoming batches;

- mastering performances during industrial process: support to the implementation of a quality management system of bio-based products at input of process;
- analyzes: Characterization on materials, fibres, powders, reinforcements, composites, concrete and insulation

wool; creation of technical data sheets; development and implementation of measurement methods;





Contact

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