



DOLANIT[®]
The High-Performance Fibre
for Technical Applications



fast, flexible, innovative

Dolan GmbH is one of the world's leading producers of acrylic speciality fibres. The plant in Kelheim, Germany combines innovative technology with technical expertise and outstanding customer service.

Around 15,000 tonnes of fibre are engineered, manufactured and tested every year to service our two core product areas :

- Fibres for highly demanding Outdoor Applications and Car-tops
- Technical Fibres



world-class production

The high quality fibres we produce are exported from Kelheim to more than 20 countries throughout the world. Our pilot facilities allow us to specifically develop tailor-made fibres to meet the needs of our customers, with whom we build the close working relationships on which our success is founded. Our fibres find use in an wide range of applications - from awnings, garden furniture covers and soft tops for cabriolets to technical products for hot gas filtration and cement reinforcement - and enjoy recognition throughout the world.

Technical leadership

Dolan GmbH is unique in his ability to offer integrated on site fibre processing alongside production of acrylic fibres. This includes the production of technical short cut fibres and ground fibres for the composites market. The consistent high quality of our products and our extensive range of tailor-made fibres guarantee the highest possible added value for our customers.



A powerful alliance

Dolan GmbH is a 100% subsidiary of Lenzing Plastics GmbH which is based in Lenzing, Austria, and has sites in Germany, Czech Republic and the United States.

Lenzing Plastics is one of the world's leading producers of polyolefin and fluoropolymer products. The main competence of this innovative niche player lies in the mono-axial stretching of polymers, a technology which allows the production of films and tapes with extremely high tensile strength. A further, still young, field of activity is the company's production of precursor, the preliminary product for the manufacturing of carbon fibres.

Competence and Performance

For more than 70 years fibres have been produced in Kelheim, Germany. The concentrated technical know-how, coupled with a constant focus on innovation, distinguish fibre production at this location.

Numerous synergy effects connect us to the viscose-specialist Kelheim Fibres GmbH and to the precursor-producer European Precursor GmbH – a Joint Venture of Lenzing AG and SGL Carbon.



safe and environmentally friendly



Quality, safety and protection of the environment are priorities in the running of our business. Both companies are certified to DIN EN ISO 9001:2000 and AQS.

Quality

Our quality management system has been certified since 1996, and has been continuously developed and improved since then. Our aim remains to implement effective processes that will allow us to meet the requirements of our customers in the most efficient manner. We are regularly audited by customers with excellent results, which offers further confirmation of the effectiveness of our quality systems.



Safety

The safety of our people, facilities and protection of the environment are of the highest priority. Our motto, "Our work is never so urgent or so important that we cannot take the time to do it safely", is synonymous with our success. Over many years we have been able to achieve and maintain accident rates among the lowest in the industry.

Environment

The protection of the environment plays a central role at our site. We have a monitoring system which is certified by the authorities (AQS). Both waste-air and wastewater flows are monitored on a continuous basis. Regular benchmark comparisons carried out across Germany confirm the effectiveness of our organisation. We remain determined to optimise all facilities in order to protect the environment and to maintain these high standards.



DOLANIT[®] 10 – the product for better braking!



For a number of years Dolanit 10 has seen growing sales in the friction products market, where it has been used with great success. For products with a large surface area, such as those found in heavy goods vehicles or in rail vehicles, Dolanit is able to meet all the requirements set for fibre products. At temperatures above 180°C, Dolanit 10 contributes to the thermal stability of the brake lining and can reduce the operating temperature within the lining by up to 50°C.

Dolanit 10 also exhibits outstanding properties in the reinforcement of thermoplastics - for example in the production of polypropylene composites.

In comparison with glass fibres, the advantage of Dolanit is found in its considerably lower density. For an equal weight of fibre in the product, Dolanit 10 delivers many more individual fibres in the composite structure, superior impact resistance at lower temperatures and is easily recyclable.

- Improved stability
- The highest level of processability
- Compatibility with all resin-bonded systems
- Reinforcement effect





DOLANIT[®] 10 FCS – the tailor-made solution for fibre cement products

Dolanit 10 FCS is physiologically safe and therefore allows the manufacture of hazard-free fibre cement and other products. Dolanit 10 FCS has been used successfully over many years in a wide range of fibre cement products, including the manufacture of small-format ties and cement pipes.



Dolanit 10 FCS has a strong track record in these end uses as a result of the following properties:

Reinforcement

high tensile strength, a high initial modulus and good adhesion ensure excellent reinforcement of the fibre cement matrix

Product Safety

Dolanit fibres do not fibrillate and do not form breathable particles. Dolanit fibre cement products are non-flammable and do not give rise to any toxic gases.

Resistance

high alkali resistance



DOLANIT[®] 18 – for factory mortar and cement applications



Our technical fibres not only improve the mechanical properties of the finished product, but they also permanently improve ease of use. In addition, the alkali resistance of almost 100% prevents the premature aging of the structure. Dolanit 18 improves the properties of mortar products such as screed, flowing screed and repair mortars. Dolanit 18 can also be used in thermal insulation adhesives, bitumen coatings and plaster systems.

DOLANIT[®] 18 SMART: With our intelligent fibre solution for fine mix applications such as dry mortar, outstanding fibre dispersion is easily achieved. We would be delighted to provide you with more information!

The advantages offered by
Dolanit 18:

- Improved homogeneity
- Improved workability
- Crack bridging
- Reduced shrinkage
- Improved ductile properties
- Higher tensile strengths





DOLANIT[®] AS – your reliable partner for road construction

When used in split mastic asphalt, Dolanit AS delivers high stability under load, reduced rut formation and a longer operating life. In open-pore asphalt surfaces, Dolanit AS improves drainage performance and reduces tyre noise over the entire life of the road surface. Dolanit AS is hydrophobic and does not swell as a result of water absorption.



In many cases, conventional bitumen coupled with Dolanit AS can replace the use of polymer-modified bitumens. This eases handling at the mixing facility as well as during road laying.



DOLANIT® 12 – ideal for filter systems



Dolanit 12 is a crimped, homopolymer acrylic fibre combining textile processability, outstanding stability and good thermal and chemical resistance. As a result, it delivers a high-performance value-for-money solution for hot-gas filtration. Dolanit 12 can be used in woven materials and needle felts for exhaust gas cleaning (dust filtration) in coal-fired power stations, waste incineration and cement production facilities, primary smelting and casting units as well as in the heavy metal and inorganic chemical industries.

Processability

The surface structure, crimp and special fibre finish deliver good processability with trouble-free carding, spinning and needling.

Resistance

Dolanit 12 exhibits good temperature resistance and is highly resistant to hydrolysis and chemical attack. Dolanit 12 offers significantly better properties than standard textile acrylic fibres.

Stability

Dolanit 12 possesses high tensile strength which leads to excellent properties in yarns and woven materials.



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