

# The future of industry goes beyond standard: lightweight, high-performance, without compromise



In a constantly evolving industrial landscape—where efficiency, durability and cost optimisation are essential requirements—the use of high-performance polymer materials has become a key factor. Advances in polymer science have enabled the development of technopolymers and advanced plastics that often represent the most effective solution for a wide range of applications.

## The added value of SUPER-technopolymer

Thanks to well-established expertise and a state-of-the-art in-house laboratory, next-generation technopolymers derived from the automotive, aerospace and electronics sectors are employed to ensure high performance and reliability. These materials offer exceptional mechanical properties, thermal resistance, resistance to chemicals and corrosion, electrical insulation. As a result, components achieve a unique combination of lightness, mechanical strength and wear resistance.

Elesa+Ganter's SUPER-technopolymer components are, in many cases, the ideal solution for applications requiring high performance, reduced weight and long service life—from machine tools and industrial automation to packaging and food processing equipment.

The use of SUPER-technopolymers represents a significant step forward in industrial component engineering. Reinforced with glass fibres, these materials provide high tensile, compressive and flexural strength while maintaining consistent performance over time. Their excellent chemical resistance makes them particularly suitable for aggressive environments and high-intensity applications.

Their lightweight nature contributes to reducing the overall weight of machinery, improving energy efficiency and simplifying installation and maintenance operations. A low coefficient of friction, combined with a smooth, non-porous surface, minimises wear and enables operation without lubrication. In addition, their electrical insulation properties make them especially suitable for electrically sensitive environments.

Economically, they also deliver tangible benefits: production costs, simplified processing and reduced energy consumption make SUPER-technopolymers a high value-added solution for next-generation industry.

## SUPER-technopolymer threaded parts

A further key development is the application of this material to threaded components, including threaded studs and stems, knurled knobs, levelling feet, positioning elements and cam levers. The versatility of SUPER-technopolymers enables them to meet a wide range of requirements while consistently ensuring high performance.

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**Certified innovation and quality**

The Research & Development department works in continuous synergy with the in-house testing laboratory, overseeing every stage of development—from structural simulation and prototyping using pilot moulds, through to the validation of each individual component. Every product undergoes rigorous mechanical, thermal, impact and chemical resistance testing.



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