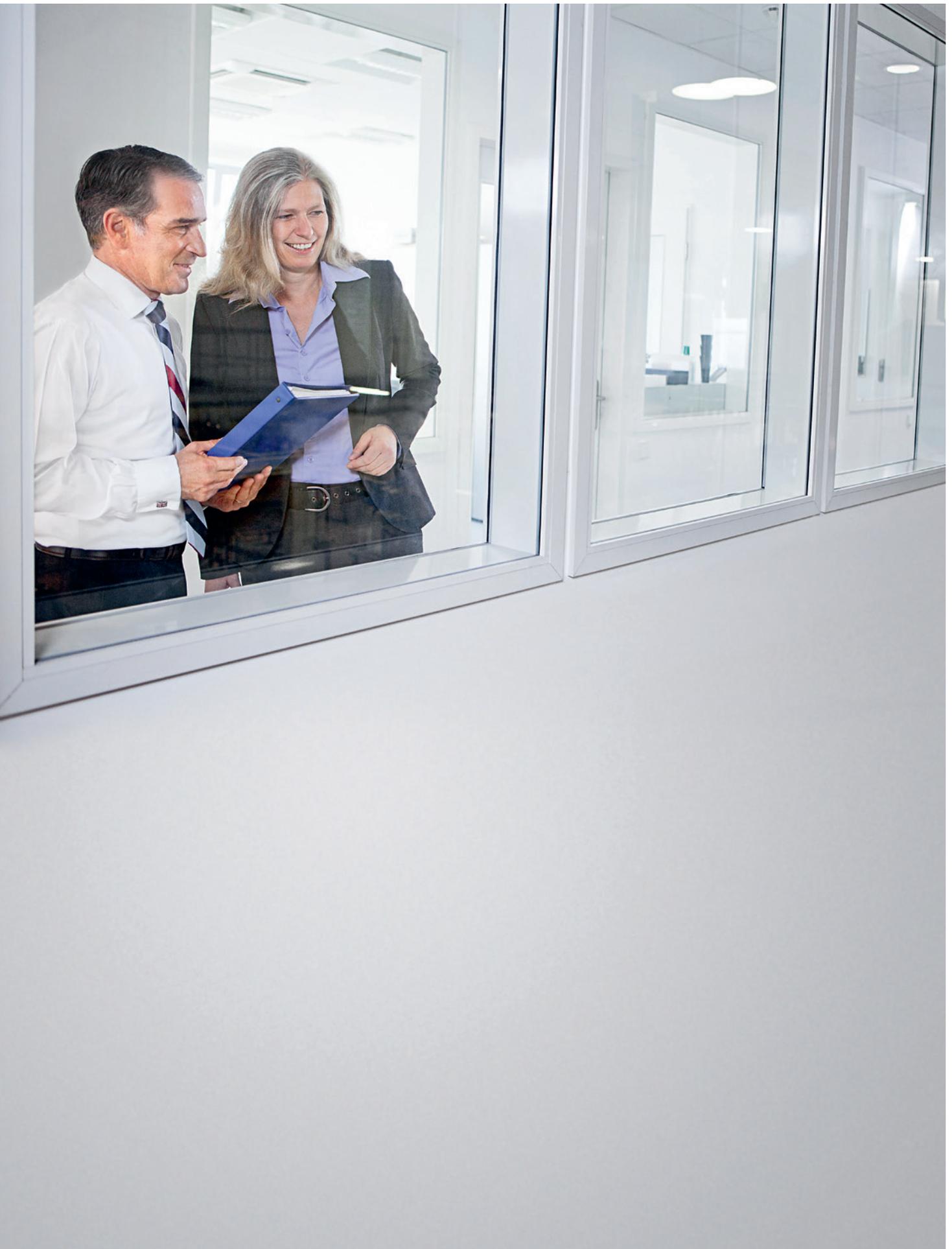


YOUR ADVANTAGE

ALBIS products, services, and solutions
for the plastics processing industry





OVERLOOK.

ALBIS. Did you know that our name stands for more than 12,000 articles? That we not only represent leading plastics brands, but also develop our own complementary compounds? That our brand is synonymous with quality consultation and technical support? This brochure will tell you more about who we are, what we do, and what you can expect from us.

There are any number of good reasons to choose ALBIS. Above all, our customers appreciate our reliability and our comprehensive technical expertise, which covers every aspect of plastics manufacturing and processing. Our keen eye for market developments is another crucial advantage. Day after day, countless product innovations are taking the market by storm – innovations that require an equally vast number of special plastics components. We rise to this challenge with a remarkably broad portfolio of standard and specialized products that allow you to keep pace with the rapidly changing market. How do we know what you need? Simple: we ask you. Directly on site, if you prefer.

Our customers come first for us, which is why we are constantly expanding our portfolio. In addition to high-quality plastics by global manufacturing leaders, we also offer our own, specially developed compounds – tailor-made to fit the needs of a single component, a specific company, or an entire industry.

Our goal is to provide a complete supply of top-quality polymers, and we always work closely with our customers to identify ideal solutions.

BE ON LOCATION.



Customer proximity worldwide: we supply our customers in Asia through a modern compounding plant in China.

WE CAN'T BE EVERYWHERE AT ONCE. BUT WE'RE WORKING ON IT.

Personal contact is crucial to maintaining a genuine customer focus. That's why our exceptional regional and international sales teams are the foundation of our entire business. Our employees aren't just customer service experts – they're also the extended arms of our customers in the ALBIS technical plastics and commodities world. Many of these business relationships have existed for years, even decades. Our aim is to grow and expand together with our customers.

And speaking of expanding: to us, being on location means "living" plastics everywhere in the world. Our services are available to you even tens of thousands of miles away from our headquarters in Hamburg. For example, our modern compounding plant in China provides direct on-site service throughout Asia, one of the world's biggest economic growth regions. Wherever we invest in developing global presence, we make sure to internalize the local culture, the people, and the market. Doing this helps us continually tap into new markets and bring new plastics solutions to new clients – as we did recently in North Africa and Brazil.



DEMAND IS GROWING. WE'RE PREPARED.

Quick and reliable order processing, high availability and punctual deliveries meeting customer specifications: just a few of the things we're known for, and have been for decades.

It doesn't matter whether you're ordering a single box or an entire truckload – we'll deliver your materials to anywhere in Germany within 24 hours. Our extensive network of storage locations helps us provide optimum service across Europe as well.

We always have an average of around 3,500 articles in stock within Germany, and a total of around 6,500 articles around Europe. Interconnection and transparency among all these storage sites keeps our SCM highly efficient, despite the complexity of the network.

ALBIS locations worldwide

Austria	PR China
Czech Republic	Romania
France	Russia
Germany	Sweden
Great Britain	Spain
Hungary	Switzerland
Netherlands	Tunesia
Poland	Turkey
	USA

ALBIS production plants worldwide

Germany	Hamburg, Zülpich
Great Britain	Knutsford
PR China	Changshu

SUPPORT.

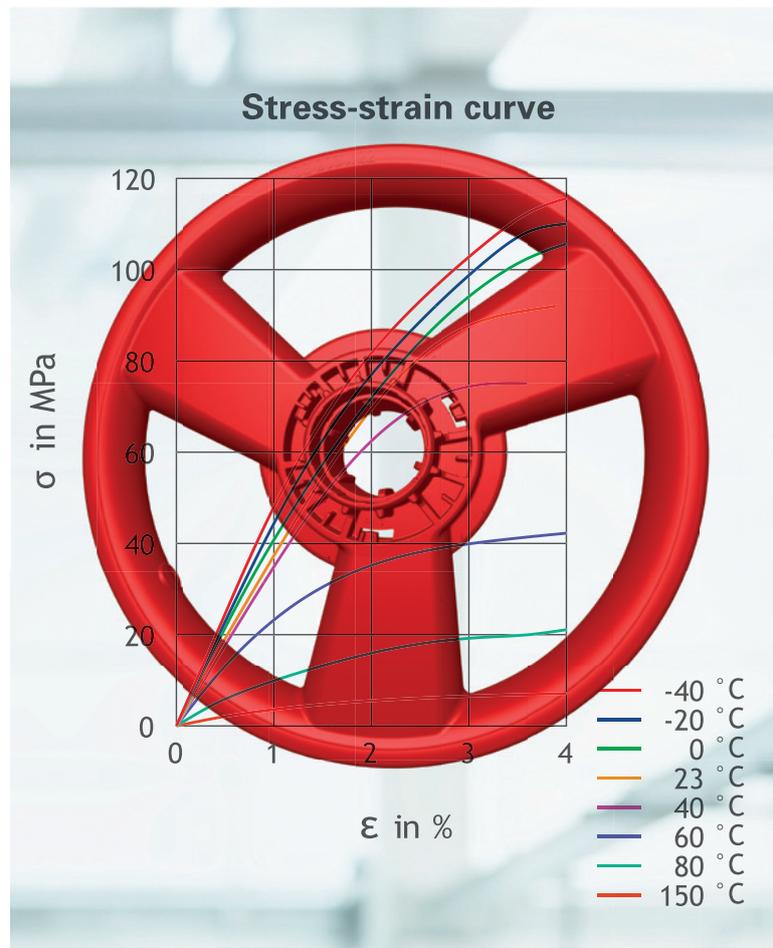


WE UNDERSTAND CUSTOMER PROXIMITY IN THE LITERAL SENSE. AND WE'RE ALWAYS GLAD TO LEND A HAND.

We are dedicated to providing our clients with comprehensive technical and sales support: What shape does the injection molding mold need to be? How should the machines be configured? Is this the right plastic material for the application in question? If not, which material would best fulfill these requirements?

Processing plastics for different applications requires intuition as well as technical expertise. We are ideal contacts in both regards, and if desired we can assist you with technical questions on everything from the idea to the finished series product – directly on site, if you prefer.

Among other things, we can help you optimize entire components in terms of structure and design. Using comprehensive analyses such as FEM calculations and injection molding simulations, our technicians provide valuable ideas regarding how and where a component could be adjusted – for example, to reduce materials consumption while still fulfilling all specifications as effectively as possible. Naturally, our experts always strive to optimize production processes as well.



IN THE AUTOMOTIVE INDUSTRY, EVERY GRAM CARRIES WEIGHT

We receive requests like these quite a lot: one of our largest automotive industry customers asked us to reduce the weight of a larger component in the engine compartment as much as possible. The challenge consisted of finding creative solutions within strictly defined limits, as the part's outer dimensions had to remain the same. Here, the only potential variable was wall thickness. Our objective was to save on material without affecting the component's stiffness or thermal behavior. Together with the customer, we used filling and warping simulations to optimize the part's ribbing concept and wall thickness distribution in terms of facing evenness. We also performed a stiffness analysis to ensure that the now-lighter and stiffer component still met the necessary mechanical and thermal load specifications.

A SMALL DIFFERENCE WITH A BIG EFFECT.



A customer in the health-care industry manufactured numerous versions of the same component used in blood sugar meters. Although the differences among these so-called "sticks" were small, each version required its own compound. This vast number of compounds threatened to render production unprofitable. One of our application technicians rose to the challenge and began searching for a solution – and he ended up selecting a product in the ALBIS portfolio that fulfilled all specifications for the different versions. The recommendation paid off both short- and long-term: it enabled our customer to start purchasing significantly larger quantities of a single material, thus making the company's operations far more economically efficient. The company is still using the material – and is more successful than ever.

DEVELOP.

THE PRODUCTS WE DEVELOP FILL THE SUPPLY GAPS.

Whenever our wide-ranging product portfolio doesn't contain an optimum solution, we develop one. Working in close cooperation with our customers, we create tailor-made products that fit all specifications perfectly. To make sure that we can put our ideas into practice without difficulties, we pay special attention to developing products that can ultimately be manufactured on an industrial scale. The result? Unique product innovations, ready for immediate use.

WE CAN'T PREDICT THE FUTURE. BUT WE CAN STAY AHEAD OF THE GAME.

We also develop new plastics solutions on our own, paying close attention to the plastics market and other important industries as we do so. Both current plastics-related trends and future legal framework conditions play roles in our work. To make sure every one of our products is on the mark, we make a point of seeking out conversations with suppliers, customers, and scientific institutions. When we combine this newly acquired knowledge with our expertise, we usually end up one step ahead of current standards.

Quality is top priority

Does the compound have the required characteristics? Is the recipe correct? Does the product comply with all tolerance values? We have the necessary labor capacities to provide answers to all of our customers' questions. Our extensive inspection technology allows us to monitor the quality of our finished products at all times, and to develop a wide range of products that maintain the same high standards. Forty injection molding machines stand at the ready to manufacture a broad spectrum of test objects that help us determine whether new compounds are usable in practice. In short: we invest in our employees and in the latest inspection technology, so that you can always rely on our products.



A GOOD COMBINATION IS HALF THE BATTLE.

High rigidity, high durability, low density: PP compounds are good – but compared to technical materials like PA6 GF 30, sometimes they're not good enough. We weren't satisfied with the situation. Conversations with customers and partners gave us the information we needed to press ahead with targeted development work on PP compounds. We wanted the new products to be economically viable, light yet extremely robust, and highly resistant to heat and warping. The results are plain to see: ALTECH NXT PP® combines outstanding mechanical and thermal properties, and provides numerous advantages in many areas of application, such as lightweight construction.

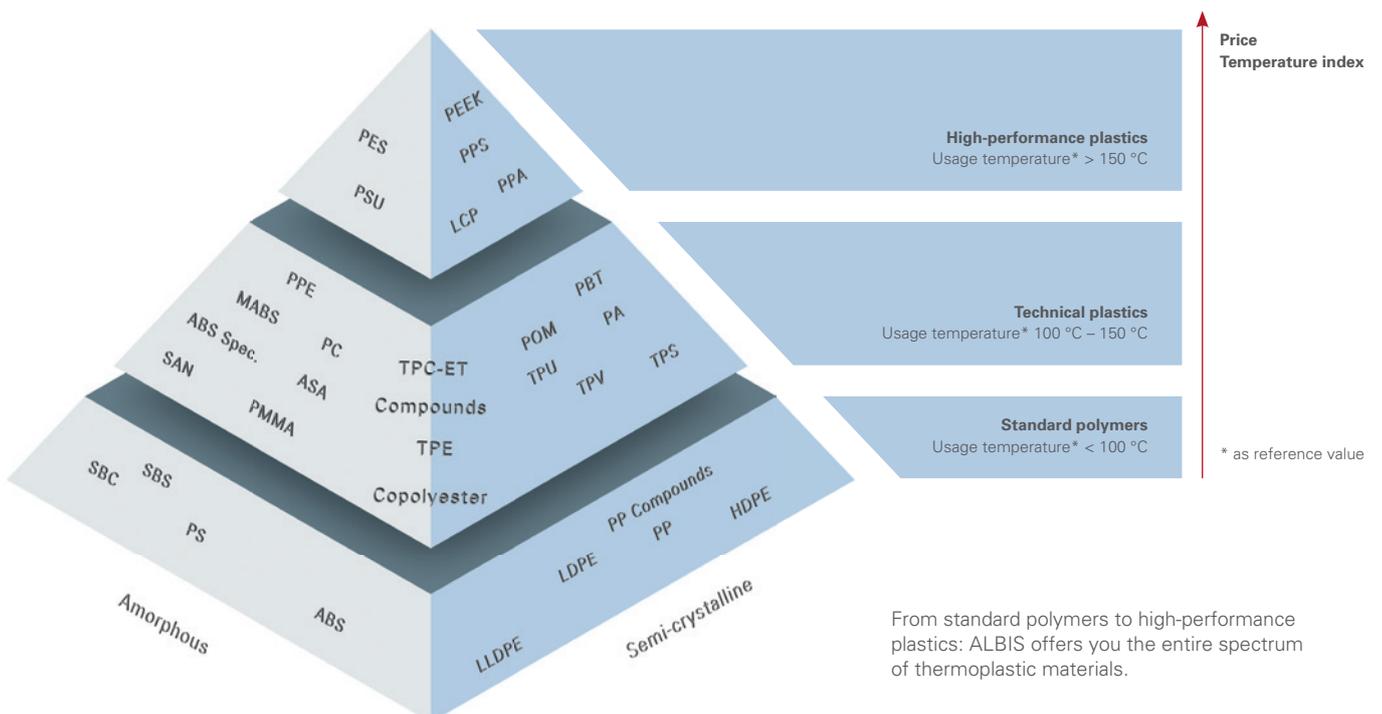
DEVELOPMENT WITH MEASURABLE SUCCESS.

Our high-tech masterbatch SHELFPLUS® O₂ absorbs oxygen from the air inside packages. Creating this innovation meant developing not only the product itself, but also a suitable measurement instrument. Up until then, there weren't even any standards in place. So our quality-control and product-analysis experts developed a range of efficient, easy-to-use measuring devices, and performed a great deal of standardization work to create uniform standards for our customers and suppliers.

OPTIMIZE.

EXTRA-SPECIAL IS PART OF THE JOB FOR US, TOO.

Sometimes a slight modification is all you need to turn a suitable plastic into the perfect plastic. The exact details vary depending on area of application, market region, and global development. As fossil fuels become scarcer and climate change is increasingly important, topics like lightweight construction, recycling, and bio-polymers are taking center stage – and we have numerous products that address all of those aspects. Other trends, such as aging populations, give rise to a need for new solutions as well. Whether conventional or green polymers, new developments or existing products: all ALBIS plastics guarantee maximum recipe consistency and ISO-certified quality.



ALCOM® – the special solutions among our plastics

The ALCOM® product program includes high-tech compounds for applications related to light engineering, heat management, abrasion minimization, and light-weight construction.

ALTECH NXT PP® – the next generation of PP compounds

ALTECH NXT PP® is often an ideal alternative to conventional polyamides when creating light, stable components that can withstand extreme thermal and mechanical loads.

ALFATER XL® – the flexible plastic

This plastic combines high elasticity and high workability for either die casting, extrusion, or blow molding processes. What distinguishes ALFATER XL® are its exceptional mechanical and thermal properties, as well as its excellent resistance against weather influences and various media (e.g., oils, fats, acids, or aqueous solutions).

ALCOLOR® – color concentrate for technical polymers

Custom-made masterbatches make it possible to color plastics directly, cost-effectively, and in every possible hue. ALCOLOR® Function Combibatches help meet color- and function-related specifications.

Ultramid® S – the high-performance polyamide

ULTRAMID® S is an extremely robust technical material for use in applications where low moisture absorption, and thus high dimensional stability, are crucial.

ALTECH® – tailor-made technical plastics

The ALTECH® program offers a comprehensive standard portfolio plus a modular system of basis polymers, fillers, additives, and colors. These individual modules can be combined to adjust specific properties to meet the needs of each customer or application. ALTECH® thus allows our customers to realize innovative solutions both technically and commercially.

TEDUR® – the high-performance thermoplast

This PPS-based compound is highly flame-resistant and can withstand even constant exposure to extremely high temperatures. It is not only highly chemically stable, but also highly durable and rigid. The thermoplast can be used in a variety of ways, including as a substitute for metal.

SHELFPLUS® O₂ – the oxygen absorber

Adding this MasterBatch allows multi-layer foodstuff packages to absorb oxygen reliably, preserving quality and taste even at room temperature while also greatly extending shelf life.

CELLIDOR® – the thermoplastic bio-plastic

CELLIDOR® is made up of approximately 45 % sustainable cellulose, making it an environmentally friendly alternative to conventional plastics. It is outstanding in terms of tensile strength and transparency, and features a warm, pleasant surface feel as well as a self-polishing effect.

ALPERFORM® – Additive masterbatches for technical plastics

ALPERFORM® comprises a variety of active substances and functionalities used to modify and optimize plastics in various ways; among other things, it can boost antimicrobial protection of plastic surfaces for use in hygiene-sensitive areas.

ALCOM®

ALTECH^{NXT}PP®

ALFATER^{XL}®

ALCOLOR®

ULTRAMID®S

ALTECH®

TEDUR®

SHELFPLUS®O₂

CELLIDOR®

ALPERFORM®

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