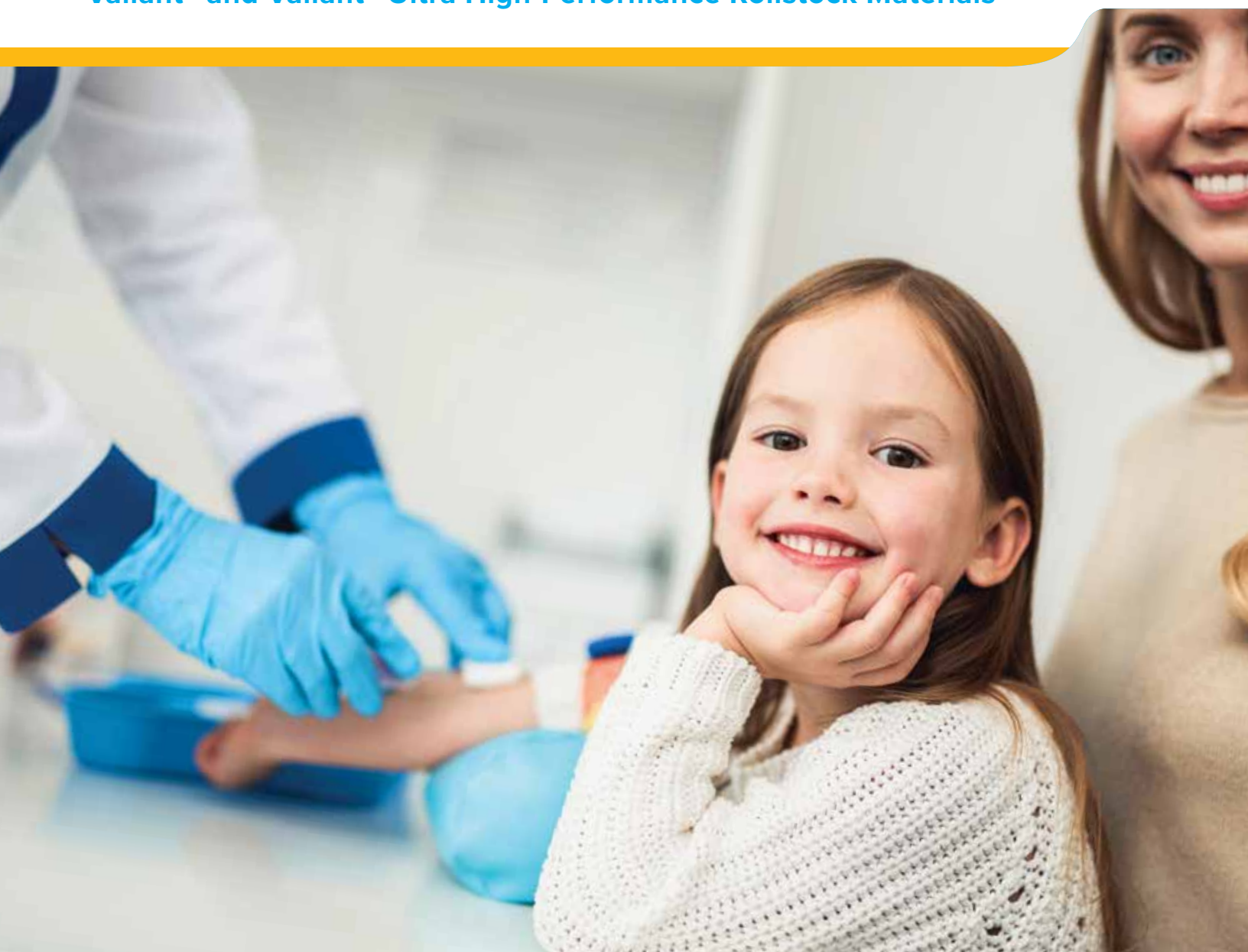




## Healthcare Packaging Solutions

**Valiant™ and Valiant™ Ultra High-Performance Rollstock Materials**





## Bringing innovative plastic medical packaging to life.

From concept to functional design, Spartech provides solutions to specific packaging applications to meet requirements for safety, convenience, performance and sustainability.

## Shaping the future of plastics through material strength and application expertise for medical applications.

From Valiant™ and Valiant™ Ultra materials, Spartech offers rollstock and formed parts manufactured to meet the most complex healthcare packaging demands. From sterility and impact strength packaging for medical devices, to enhanced stability through barrier protection for combination devices and pharmaceuticals, Spartech meets your exact project specifications, timelines and budget requirements.

As the healthcare industry evolves and new trends and regulations emerge, Spartech provides a critical value. Our industry knowledge, materials science expertise, and vertically integrated capabilities enable us to deliver specialty solutions unique to medical applications.

**Within the healthcare industry, we serve a wide range of market segments and applications.**

### MEDICAL DEVICE TRAYS & KITS

- Surgical instrumentation
- Orthopedic implants
- Combination devices

### DIAGNOSTIC KITS

- Point-of-care testing
- Labware, including pipettes and culture trays

### PHARMACEUTICALS

- Unit dosage cups

From ideation to commercialization, our team will collaborate with you to deliver a safe, effective and high-quality medical package. We offer Valiant monolayer rollstock and formed parts for compliant and sterile device packaging, as well as Valiant Ultra custom barrier solutions.

With multi-layer barrier technology, Valiant Ultra rollstock (with up to 13-layer capability) meets rigorous sterilization and regulatory requirements. It also provides reduced material costs through elimination of secondary packaging.





The Spartech healthcare product development team will help you navigate through complex regulations. They have years of knowledge in meeting regulatory compliance protocols such as FDA and USP Class VI standards.

# Our solutions, your medical packaging success.

At Spartech, we know that material selection is critical to meeting strict regulatory requirements and ensuring devices and medications are delivered safely. Our extensive materials knowledge and medical industry expertise helps you develop compliant packaging. It also is an ideal solution to get your products quickly to market, and reduce the risk of failure.

As a world-class formulator with direct links to global resin suppliers, Spartech offers a full breadth of polymer solutions for medical packaging applications. Some of the many additives we can incorporate include: anti-microbial technology that combats surface microbe formation, authentication technology that prevents counterfeit packaging, and an array of foaming agents that enable lighter weight packaging. We also offer single- or double-sided silicone coating abilities to aid in denesting and secondary packaging processes.



### MEDICAL PACKAGING CAPABILITIES

As you consider your particular project needs, we work with you to gain insights from end consumers to the global marketplace. We can help you through your entire material selection and manufacturing process, from the early concept phase to full commercialization.





The healthcare industry demands safe, high-quality packaging for medical devices and pharmaceuticals. And that's exactly what we deliver.

## Design that works in the real world.

Spartech's Innovation Center contains a state-of-the-art design lab that provides complementary capabilities to our production facilities to accelerate project timeframes. From initial design and application development to manufacturability and commercialization, we apply our knowledge, problem solving expertise, and experience to meet your exact requirements. The result? We can get your medical products to market safely, and as quickly as possible.

### THE INNOVATION CENTER FACILITATION PROCESS INCLUDES:

#### RESEARCH

By gaining insights into usage and end-user functionality of your medical application, we can be assured of meeting all your medical packaging requirements.

#### CONCEPT DEVELOPMENT

From ideation through material and process selection with CAD modeling, we make sure the right packaging design is implemented. This allows us to make crucial decisions early in the design phase.

#### PROTOTYPING

We deliver ren board tools and rapid mock-ups for pilot production and end-use testing to help reduce your risk of market entry. We do all this to help make sure you can achieve market entry that's on time and on budget.

#### CONCEPT REFINEMENT

Honing the design with final revisions, bill of materials creation, and quality specifications, Spartech ensures cost-effective manufacturing processes and solutions.

#### IMPLEMENTATION

We bring your new medical product to market with project management services, testing protocols and full production support.

#### PLASTICS TESTING

We have broad testing capabilities on mechanical, thermal and compositional analyses and performance testing, such as seal and peel testing. Combined with strong formulation expertise and problem-solving skill sets we are able to provide comprehensive medical packaging solutions.

#### SUPPLY RISK MITIGATION

Three facilities can produce our Valiant and Valiant Ultra products, which provides business continuity and added supply risk mitigation.



Contact your Spartech representative or call us at 1-800-677-4338 with questions about any of our Valiant™ options.



## Sustainability Initiatives



Spartech is committed to sustainable packaging solutions in a focused effort to meet the needs of the present without compromising future generations. Our sustainability initiatives include: lightweighting, non-BPA materials, waste reduction and recyclable solutions.

Also, our Rejuven8™ bioplastic sheet and rollstock materials can be fabricated to contain bio-based materials, be designed for recyclability and/or meet ASTM standards for compostability.



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