

## Vipel® Corrosion-Resistant Resins for Composite Equipment and Systems for Food Processing

- Fiber-reinforced polymer (FRP) composites made with Vipel® resins resist the corrosive and often hot environments of food processing environments. Composites made with AOC resins are durable, cost-effective alternatives to carbon steel, stainless steel, aluminum and exotic alloys. Vipel and Firepel technologies eliminate the need for coatings, ongoing maintenance and frequent replacement.
- AOC has the optimum cost-effective resin to protect against attack from process ingredients. Special grades are FDA-approved for direct food contact during processing, storage and handling. Proven chemistries for food production include isophthalic polyester, vinyl esters and where required, fire and smoke ratings as high as Class 1 (ASTM E84).
- Composites made with Vipel resins are design-engineered to exacting specifications for cost effectiveness and outstanding performance. Primary reasons for using AOC resin in composites for food processing are chemical and corrosion resistance, long-term durability, high strength-to-weight ratio and dimensional and thermal stability.
- Composites provide superior cleanability and resistance to antibacterial, disinfecting and cleaning solutions. Composites replace metals and wood which may harbor bacteria when exposed to moisture. Applications that benefit from this attribute range from wall and ceiling panels to broom and tool handles.



- Other composite benefits that can be achieved from food processing applications that incorporate AOC resin are dynamic loadbearing properties, freedom of design, unitized construction, electrical and thermal insulating properties, integral color, surface finish options and lower system and life cycle costs.

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■ Domes, enclosures, hoods and covers fabricated with Vipel resins contain odors and fluids, maintain treatment conditions and resist attack from moist, corrosive environments. A high strength-to-weight ratio results in large composite structures that are easier to ship and install than heavier alternatives. Design freedom allows for large curved expanses stiffened with integral ribbing and shaped to be nested during shipping.

■ AOC resins provide inherent corrosion resistance for composite grating, handrails, stairtreads, platforms, ladders and protective cages. Rust-free qualities eliminate the need for protective coatings and ongoing maintenance. Painting is eliminated because color is integrally imparted during the fabrication process. Foot traffic applications are manufactured with slip and skid resistant features, and high dielectrics provide added protection when working near power sources.

■ Other composite pharmaceutical industry applications that benefit from AOC resins include:

- Storage tanks
- Process Vessels
- Coatings & Liners
- Piping & Fittings
- Drains
- Fans & Blowers
- Pumps
- Enclosures
- Structural profiles

■ AOC combines its superior resin chemistry with the chemistry of people dedicated to providing material solutions for food processors. At the vanguard of our corrosion strategy are regional Corrosion Specialists who assist in the specification, fabrication and installation of corrosion resistant equipment. Contact your regional Corrosion Specialist to realize the chemistry of Vipel technology – and the chemistry of the AOC Corrosion Team.

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**AOC**<sup>®</sup>  
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