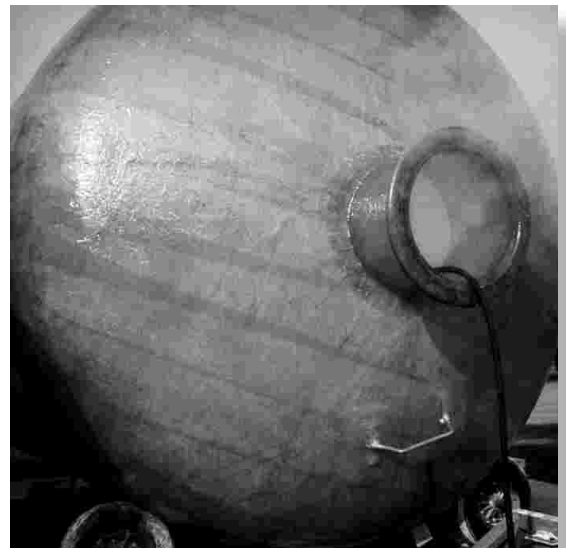


## Vipel® Corrosion-Resistant Resins for Composite Equipment and Systems in Chemical Processing

- Fiber-reinforced polymer (FRP) composites made with Vipel® resins resist the corrosive and often aggressive environments of chemical processing. Composites made with AOC resins are durable, cost-effective alternatives to carbon steel, stainless steel, aluminum, exotic metal alloys and concrete. Vipel technologies eliminate the need for coatings, ongoing maintenance and frequent replacement.
- AOC has the optimum cost-effective resin to protect against attack from process chemicals including acids, waste storage media, heat and constant moisture. Proven chemistries for chemical processing include isophthalic polyester, bisphenol-A polyester, bisphenol vinyl ester, epoxy novolac vinyl ester 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 resins in composites for chemical processing are chemical and corrosion resistance, long-term durability, high strength-to-weight ratio and dimensional and thermal stability.
- Other composite benefits that can be achieved from chemical 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.



- AOC has Vipel resins to resist the hot, wet and acidic conditions of scrubbers, ducts, stacks and liners used in the processing of chemicals. Within the AOC corrosion product line are proven resins for a variety of conditions, including oxidizing chemical systems, abrasive

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particles, concentrated salt solutions, chlorinated systems and halogenated gases.

- 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 chemical processing applications that benefit from AOC resins include:

- Storage tanks
- Process Vessels
- Pipe & Fittings
- De-misters
- Towers & columns
- Building panels
- Roofing
- Coatings and Liners
- Pumps
- Fans & Blowers
- Enclosures
- Structural profiles
- Field fabrication
- Field repair

- AOC combines its superior resin chemistry with the chemistry of people dedicated to providing material solutions for chemical 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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