

CaseHistory

Wastewater Odor Control

Market Segments:	- Scrubbers - Water/Wastewater
Composite Applications:	- Odor control scrubber Body - with Internal Support Structures - Ductwork - Control Dampers and Isolation Dampers
Resin:	Vipel® K022-C vinyl ester E84 Class 1 fire rating with 1.5% antimony oxide addition
Manufacturing Processes:	Filament Winding Hand Lay-Up
Dimensions:	Scrubber diameter: 12 ft (3.7 m) Scrubber sidewall: 22 ft (6.7 m) Duct diameters: 12 to 84 in (30.5 to 213.3 cm) Duct lineal total: 2,500 ft (762 m)
Design Temperature:	180° F (82°C)
Installed:	2002
Location:	23rd Avenue Wastewater Treatment Facility Phoenix, AZ, USA



Corrosion-resistant Vipel® K022-C is used to fabricate composite equipment that is essential to controlling odors from a new million gallon per day wastewater treatment facility. Belco Manufacturing, Belton, TX, USA, uses Vipel® K022-C vinyl ester to filament wind cylindrical components and open mold elbows and flanges. Scrubber systems are designed to withstand exposure to hydrogen sulfide and low concentrations of sodium hydroxide. “We specified this Vipel® K022-C because it processes well and meets engineering stringent requirements for flame retardance and resistance to a corrosive environment,” says Jeff Jones, Municipal Manager for Belco. “AOC technicians were very helpful in developing a formulation that targets our process parameters for a precise gel time and lower exotherm.”

Wastewater Odor Control, continued

About Belco Manufacturing

Belco Manufacturing Co. Inc., Belton, Texas, custom designs and manufactures corrosion-resistant composite products and systems for the chemical processing, pulp and paper, water and wastewater, metal and mining, petroleum, electronics, and power generating industries. For more information on Belco capabilities, contact Engineering Manager Guy P. Gentry, MSCE, PE, by phoning (254)933-9000 or e-mailing ggentry@belco-mfg.com.

About AOC

AOC is a leading global supplier of resins, gel-coats, colorants, additives and synergistic systems for composites and cast polymers. AOC knows technology, lives quality and delivers service better than any other resin supplier. For more information, e-mail corrosionresins@aac-resins.com, phone (901) 854-2800 or go to CorrosionResins.com or AOC-RESINS.com.

