



Your Formula for Success
RESINS | GEL COATS | COLORANTS

CASE HISTORY



Wastewater Odor Control

Market Segments: Scrubbers
Water/Wastewater

Composite Application: Odor control scrubber Body with Internal Support Structures
Control Dampers and Isolation Dampers

Resin: Vipel® K022-C vinyl ester
E84 Class 1 fire rating with 1.5% antimony oxide addition

Manufacturing Process: 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.”

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 material systems for composites and cast polymers. For more information on AOC technology, quality and service, e-mail corrosion-resins@aoc-resins.com, phone (866) 319-8827, or go to AOC-RESINS.com.

