

CaseHistory

Desalination Plant

Market Segment(s):	-Tanks -Pipes/Ducts -Waste Water Treatment
Composite Applications:	Pipe and Fittings Seawater Intake Pipe
Resin:	Flexibilized Isophthalic Polyester
Manufacturing Process:	Hand lay-up Spray up
Diameters:	14 in. to 12 ft. (350 to 3700 mm)
Length:	17 mi. (27 km)
Maximum Temperature:	150°F (65°C)
Pressure:	150 psi (10 bar)
Years Installed:	1981-1983
Locations:	Yanbu, Saudi Arabia Al-Jubail, Saudi Arabia



The light weight of the composite versus steel facilitated installation. Composite components in underground and aboveground sections are in very good condition after decades of use.

Specific composite applications include seawater intake, cooling water networks and discharge lines. The fabricator, Amiantit Fiberglass Industries Limited (AFIL) of Damman, selected AOC isophthalic polyester for its resistance to the salinity of seawater.

No major problems have been reported since the composite pipes and fittings were installed. Development of Yanbu on the Red Sea and Al-Jubail on the Persian Gulf is part of a Saudi master plan to establish an expanded economy before oil and gas resources eventually decrease.

Desalination Plant, continued

About AOC

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

