

## Desalination Plant

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**Resin:** Flexibilized Isophthalic Polyester

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**Composite Application:** Pipe and Fittings

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**Diameters:** 14 in. to 12 ft. (350 to 3700 mm)

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**Length:** 17 mi. (27 km)

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**Maximum Temperature:** 150°F (65°C)

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**Pressure:** 150 psi (10 bar)

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**Years Installed:** 1981-1983

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**Locations:** Yanbu, Saudi Arabia  
Al-Jubail, Saudi Arabia

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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.