

# OFFSHORE

ARC COMPOSITE COATINGS FOR THE OIL AND GAS INDUSTRY





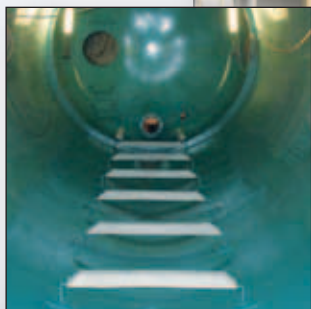
# Technology, Expertise, and

## ARC COMPOSITE COATINGS

**Coating technology designed for the toughest environments:** Chesterton® ARC Composite Coatings provide reliable corrosion, erosion, and wear protection for your platform's critical process equipment operating under the most severe conditions.

**Expertise:** Our process knowledge and industry expertise allow us to provide long lasting solutions, lowering life cycle equipment costs.

**Systems proven around the globe:** Our comprehensive local service and support are proven in areas such as the Middle East, North Sea, Brazil, West Africa, and the Pacific Rim.



### Separation

Maximizing the efficiency of the separation phase increases platform productivity, however exposure to the associated elevated temperatures, pressures, and corrosive conditions degrades critical process equipment. ARC Composites are used to combat corrosion and erosion of process equipment in the following areas:

- Test separators
- High and low pressure separators
- De-salters
- Hydrocyclones
- Coalescers
- Compressors
- Dehydration columns
- Main oil line pumps



# Reliability



## Production

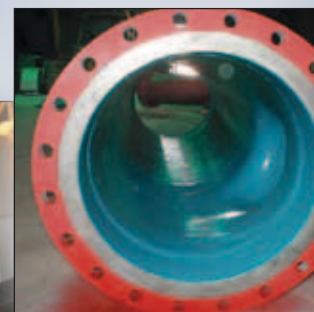
The erosive and highly corrosive fluids commonly found inside production equipment on offshore production platforms are areas where ARC Composites are providing years of reliable service. Examples where ARC Composites are providing extended service life for production-associated equipment include internal linings of:

- Chemical storage tanks
- Transfer pumps
- Shaker drums
- Hydrocyclones
- Drilling mud tanks
- Mud pumps
- Injection booster pumps

## Seawater Systems/Utilities

The seawater systems and utility services required to operate an offshore platform present a wide range of corrosive and abrasive conditions for which ARC Composites are uniquely suited. ARC Composites are used to protect the following areas:

- Seawater lift pumps
- Diesel storage tanks
- Gas compressors
- Heat exchangers
- Foam-based firewater suppression
- Sewerage systems
- Potable water systems
- Backwash filter systems
- Firewater piping and pumps

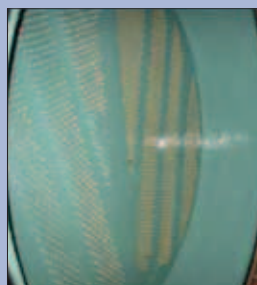


## Produced Water

The water treatment process equipment used to separate the "water cut" from the produced hydrocarbons exposes associated process equipment to high chlorides, hydrocarbons, erosive particulates, and elevated temperatures and pressures, which rapidly attack unprotected surfaces. ARC Composites are used to protect the following areas:

- Chemical storage tanks
- Sand cyclones
- Hydrocyclones
- Booster pumps
- Deaeration columns
- Dual media filters
- Well injection pumps

# ARC Composite Solutions for Offshore Production Platforms



- Problem** Accelerated corrosion in heat exchanger
- Solution** ARC Composites used to rebuild and protect heat exchanger end covers, divider plates, and tube sheet
- Results** *Coated unit has been in service without additional maintenance for 3+ years*



- Problem** Accelerated corrosion inside high pressure separator
- Solution** ARC Composites used to protect carbon steel separator vessel
- Results** *Coated units have been in service for 5+ years with no failures after 3 inspection cycles*



- Problem** Accelerated corrosion and erosion inside hydrocyclone
- Solution** ARC Composites used to protect exposed cover, shell, and plate
- Results** *Coated units have been in service for 6+ years with no failures after multiple inspection cycles*



## Global Solutions, Local Service

Since its founding in 1884, the A.W. Chesterton Company has successfully met the critical needs of its diverse customer base. Today, as always, customers count on Chesterton solutions to increase equipment reliability, optimize energy consumption, and provide local technical support and service wherever they are in the world.

Chesterton's global capabilities include:

- Servicing plants in over 100 countries
- Global manufacturing operations
- More than 500 Service Centers and Sales Offices worldwide
- Over 1200 trained local Service Specialists and Technicians

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