



WIRE AND CABLE

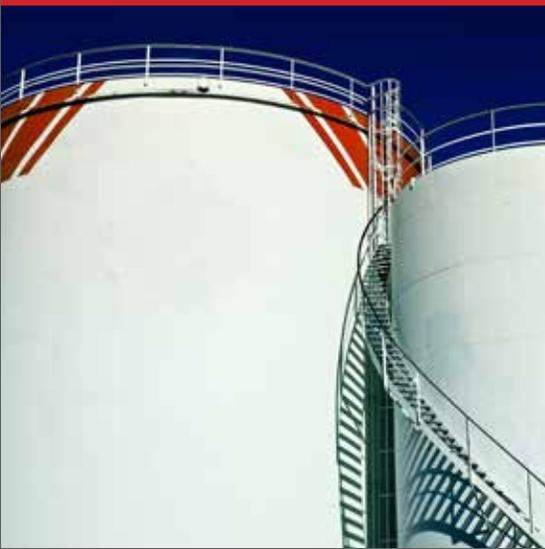
COLLABORATION AND WIN-WIN

POLYONE'S SUCCESS-DRIVEN SOLUTION FOR
CABLE MANUFACTURERS



PolyOne

CASE STUDY: ECCO™ FIRE RETARDANT AND LOW SMOKE SOLUTIONS



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THE CHALLENGE

Increasing consumer and industrial demand for oil products drives crude oil exploration. Strong growth in off-shore oil activities has led a growing number of cable manufacturers to enter the field to meet demand.

In offshore oil-tapping operations, the outer-sheath layers of cables are exposed to crude oil, mineral oil and mud over the long-term. Such harsh operating conditions require cables to be safe and reliable.

As crude oil production is a key strategic concern for most countries, governments attach great importance to off-shore oil development, and want to ensure that sea-based operations are safe and sustainable for the long-term. As a result, several stringent regulations governing the materials used in off-shore oil activities have been issued to promote safe, stable operations.

In order to market its cable products to offshore oil platform projects, manufacturers must have products certified for:

- IEC-60092 SHF2: oil resistant performance
- NEK606: mud resistant performance
- IEC-60332-3A: standard to test bundled, insulated cables for fire resistance
- Low temperature properties (-40 C)

THE SOLUTION

Following a detailed and rigorous review of products on the market, our customer, a global cable manufacturer, selected ECCOH™ 5801 and ECCOH™ 5806 from PolyOne as the most comprehensive solutions for offshore oil platform cables.

ECCOH 5801 and ECCOH 5806 are designed for sheathing applications, which boast low smoke, low fumes, flame retardance and

non-halogen formulation. ECCOH 5801 complies with IEC 60092-359 SHF2, while ECCOH 5806 complies with NEK606.

Both grades feature good low temperature properties and oil resistance performance at high temperatures when being tested by standard oils (IRM 902, IRM903). Both can be crosslinked by either E-beam or Dry Silane methods.

THE IMPACT

ECCOH 5801 and ECCOH 5806 helped the customer to ensure long-term, reliable performance of cable products in harsh environments. Moreover, the materials are environmentally friendly to the ocean and marine life, and minimize fire hazards to oil platforms during operations.

Our solutions also enabled the customer's cables to pass SHF2 and NEK606 testing and helped them to win multimillion-dollar cable orders in Europe, especially for projects close to the Arctic Circle.

PolyOne offers specialized solutions that are targeted at helping wire and cable customers meet performance and sustainability goals, improve manufacturing efficiency and maximize value in every way possible.

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To learn more about ECCOH™ solutions, contact PolyOne at +86 (0) 21 6028 4888 or visit www.polyone.com.

