

# 'ISOLATION' PROBLEMS SOLVED WITH BELZONA

ID: 454

Industry: Oil & Gas

Customer Location: Engineering Consultants - UK Oil & Gas Industry

Application: VPF-Valves, Pipes and Fittings

Application Date: March 2002

Substrate: Steel and stainless steel.

Products: \* Belzona® 1391 (Ceramic HT Metal) ,  
\* Belzona® 1591 (Ceramic XHT Metal) ,

## Problem

Installation of a titanium cooler offshore, into a steel pipework system, increased the possibility of galvanic corrosion between the two dissimilar metals. The traditional approach involves the installation of rubber lined isolation spools adjacent to the cooler. However, in this instance the elevated operating temperature increased the likelihood that the rubber would disbond, a commonly found problem, so an alternative was sought.



## Photograph Descriptions

- \* Pipespool grit blasted and ready for coating ,
- \* Following coating and removal of the former ready for dressing ,
- \* Post pressure test awaiting despatch to customer ,

## Application Situation

Isolation spools for titanium cooler

## Application Method

Belzona® 1391 and Belzona® 1591 were applied to the internal surface of each of the spools in accordance with Belzona Know-How System Leaflet VPF-2. To eliminate the possibility of defects, which would allow very rapid corrosion, the coating materials were applied as two coat systems. Immediately following application of the second coat, the flange faces were reformed according to Belzona Know-How System Leaflet VPF-13.

## Belzona Facts

For more examples of Belzona Know - How In Action, please visit <https://khia.belzona.com>

ISO 9001:2015

Belzona products are

FS 695214

manufactured under an ISO

ISO 14001:2015

9000 Registered Quality

EMS 695213

Management System.

[www.belzona.com](http://www.belzona.com)



A total of four flange pipespools were coated and the flange faces reformed using this process. Subsequent inspection some 12 months later revealed the pipespools to be in perfect condition.

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