

# BELZONA PROTECTS NEW PROCESS VESSELS FOR NATURAL GAS PURIFICATION PLANT

ID: 5985

Industry: Oil & Gas  
Application: TCC-Tanks and Chemical Containment Areas  
Substrate: Carbon steel  
Products: \* Belzona 1321 (Ceramic S-Metal) ,  
\* Belzona 1391T ,  
\* Belzona 1591 (Ceramic XHT) ,

Customer Location: Major Oil and Gas Customer, China  
Application Date: August 2014

## Problem

In total, more than 60 vessels such as feed gas separators, reflux drums, liquid sulfur traps and various other process vessels, required internal linings to protect from erosion and corrosion. Belzona products were specified in this project. Each type of vessels has specific operating conditions, temperatures from  $-17.5^{\circ}\text{C}$  to  $175^{\circ}\text{C}$ ; and majority contain aggressive acidic media.



## Photograph Descriptions

- \* Overview of some vessels ,
- \* Overview of interior of the vessels after blasting ,
- \* Application completed and inspected ,
- \* After 1 year in service, the re-inspection showed a "flawless" lining ,

## Application Situation

Largest new-built Natural Gas project in China. It includes one plant with 12 million cubic metres capacity per day and another plant with 18 million cubic metres capacity per day.

## Application Method

The application was carried out in accordance with Belzona Know-How System Leaflet TCC-5.

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

ISO 9001:2015  
Q 09335  
ISO 14001:2015  
EMS 509612

Belzona products are  
manufactured under an ISO  
9000 Registered Quality  
Management System.

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## Belzona Facts

The Belzona internal linings have been a cost effective solution, protecting the vessels from aggressive erosion and corrosion, while ensuring the plant operated safely. The application team was well trained by Belzona and strictly implemented the Belzona global application standard which enabled the application to be delivered to a high standard. After immersed in aggressive media such as acid solvent, sour gas and sediment for 1 year, when the vessels were inspected on-site, the internal lining showed no signs of deterioration.

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