

# BELZONA EMERGENCY LEAK SEALING

ID: 567

Industry: Oil & Gas  
Application: HEX-Heat Exchangers  
Substrate: Carbon steel  
Products: \* Belzona® 1321 (Ceramic S-Metal) ,

Customer Location: Oil refinery, Egypt  
Application Date: October 2003

## Problem

*Bi-metallic corrosion between the tubes and the tube sheet had caused Freon leakage.*



## Photograph Descriptions

- \* General view of the consumed Freon containers used to replenish leaks. ,
- \* The tube sheet suffering from Freon leakage ,
- \* Surface preparation by grit blasting ,
- \* Belzona® 1321 applied to stop the leakage ,

## Application Situation

Tube sheet in nitrogen production unit working at 8 bar

## Application Method

Application was carried out in accordance with Belzona Know-How System Leaflet HEX-3.

## Belzona Facts

Beside the health factors, Belzona has saved about \$35,000 annually for refilling Freon due to leakage, only in three hours of work and \$340 for Belzona products. The repair was completed quickly and safely with out heat.

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

ISO 9001:2015  
FS 695214  
ISO 14001:2015  
EMS 695213

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

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