

Fire fighting system Leuna, Germany

Location
Leuna, Germany

Completed date
1996

End user
Mitteldeutsche Erdöl Raffinerie
(MIDER)
Leuna

Installation company
Thyssen AG, Lurgi GmbH
und Technip SarL Joint
Venture and subcontractors



EPC Contractors
Thyssen, Lurgi Oil & Gas GmbH Frankfurt and Technip, Paris France (TLT)

Discription
Financed by the German Government and the European Communion a new refinery was built in the formally DDR at the Leuna Location near Leipzig, with a total invest amount of 2 billion US dollar. The fire fighting systems were designed and built in glass fibre reinforced epoxy systems with a design pressure of 20 bar (Test pressure 30 bar).

- Scope**
Our scope included:
- Detailed engineering
 - Fabrication
 - Logistics activities
 - Supervision and spool building (pre-fabrication of large spools)

Pipe system
A pipe line system with a rubber seal lock joint (fully tensile resistant) um to and including 600-mm was delivered. Total length ca 25 km. The ringmain consist of a ca. 13 km pipe DN 400 with rubber seal lock joint connections.

Advantages
The long term safety behaviour and low maintenance costs of GRE pipe systems were crucial for the decision to make use of Wavistrong epoxy pipe systems Epoxy pipe. The rubber seal lock joint secures a safe and quick installation even under the most severe conditions like soil settings and in polluted areas'. The flexible connection allows also an easy dismantling of valves because of the actual space in the connection. The system is fully tensile resistant which results finally that there are no concrete anchor blocks required. Cathodic protection as well as X-ray activities are not needed which reduced the total installation costs accordingly.