

CHEMICAL AND PETROCHEMICAL

Diverse solutions for a diversified sector

There is scarcely a single everyday product that has not been produced with the help of the oil chemical industries: plastics, paints and lacquers, fertilisers, pharmaceuticals, cosmetics, etc. The range of products from this innovative industry is as rich and varied as their processes and installations, and therefore the requirements they place on their refractory systems and chimneys.

The engineers at DOMINION, under the brand BEROA, are completely familiar with the most diverse challenges posed by the chemical industries. Drawing on their experience, they select the most suitable refractory products and concepts and thus safeguard the maximum efficiency of the installation.

Our customers expect reliability, safety and consideration of ecological and economic aspects. In a great many installations all over the world, we have proved our competence in all of these aspects, whether refineries, installations for the fertiliser industry, coal gasification and syngas

systems, primary and secondary reformers, fluid catalytic cracking plants, sulphur recovery units, etc.

Like in all other fields, we are responsible for refractory engineering and chimney construction. We provide the material and execute the installation. For the whole programme of drying, inspection and maintenance, you are given the whole range of services from one provider anywhere in the world.

Our energy efficiency team can help you to optimize your plant, achieving significant energy reduction cost based on dampers suppression and blower motion control.

“We are your partner for advanced chimney and refractory concepts for trial, demo and commercial working plants.”





SOME CUSTOMERS

ALSTOM	MINERALÖLRAFFINERIE DOLL-
ARKEMA	BERGEN
BASF	NAPHTACHIMIE
BAYER-CHEMPARKS	REPSOL
BOREALIS	RHODIA
BP	SASOL
CEPSA	SHELL
EXXON	SOLVAY/SOLVIN
FOSTER WHEELER	STATOIL
GPN	TECHNIP
HALDOR TOPSØE	TECNICAS REUNIDAS
HONEYWELL	TOTAL
INCITEC PIVOT	TKIS (UHDE)
INEOS	VICHEM
KBR	SABIC
LINDE	

The largest secondary ammonia reformers in the world

CUSTOMER - ThyssenKrupp Industrial

OPERATOR - SAFCO/MAADEN/CFI

LOCATION - KSA/KSA/USA

PROJECT - Refractory lining of secondary ammonia reformers with a capacity of 3,300 tpd

EXECUTION - 2005/2010/2015

TECHNOLOGIES

- Knowledge of process data and its significance for use with refractory linings, as well as experience with refractory products and the particular features of these materials for industrial use, are decisive for the selection of the proper refractory system.
- Design, supply and installation of refractory linings for.
 - Primary steam reformer either with brick lining or castable lining or ceramic fibre lining or combination of all three linings.
 - Secondary reformer either with brick lining or with castable lining up to process licensor. Waste heat boiler (PG-Cooler) and steam superheater either with brick lining or castable lining.
 - Autothermal reactor, gasifier, POX reactor, combustion chamber, sulphur recovery unit, Claus combustion chamber, single cell or double cell cracking furnace, heater pyrolysis furnace.
 - Fluid Catalytic Cracker (FCC), flexicokes, Catofin reactor.
- Maintenance of refractory linings and chimneys, including consulting, inspection, demolition and installation services during the shutdown.
- Turnkey construction of concrete reinforced windshield chimneys, including design and erection.
- Supply and erection of steel chimneys through our Group company STEELCON.
- External insulation of all kind of aggregates and piping.
- Fireproofing of support structures using approved materials and procedures.
- Acid resistant linings: acid proof bricks, tiling, epoxy linings and membrane systems for autoclaves, vessels, pits and floors.
- Energy efficiency technologies including energy monitoring, electrical control, heat use optimization and waste heat recovery, furnace optimization service, steam pressure recovery project, compressed air network global optimization and retrofit, air and flue gas quality monitoring system, water treatment plant.

