

NORAM SXTM PIPING



NORAM SULFURIC ACID Products and Services

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Sulfuric acid piping is a crucial component of any acid plant. **NORAM SXTM sulfuric acid piping** offers significant advantages over conventional piping systems in terms of reliability, safety and maintenance, resulting in overall cost benefits to the acid plant.

Corrosion rates of NORAM SX[™] is practically zero in the typical operating range of the drying and absorption circuits, even at high acid velocities. The resistance against occasional process excursions and upset conditions is also exceptional.

The excellent corrosion properties allows for reduced pipe diameters, since higher acid velocities can be utilized. Wall thickness of the piping systems can be reduced, leading to a lighter weight and easier handling. The life expectancy of the piping system equals the service life of the acid plant itself. Also, the plant performance is improved due to cleaner acid with considerably lower corrosion products and sulfate buildup.

NORAM SX[™] is easy to weld, work and handle. Flange connections are replaced by welded joints and the piping system can be prefabricated and easily field erected or modified. Spare inventory can be dramatically reduced since pipe spool spares are not required.

The features of NORAM SX[™] piping offer long reliable service life, high safety, and low maintenance results in high plant availability at minimum life cycle cost.

The NORAM SX[™] piping has been developed to meet all the specific requirements of a sulfuric acid plant. The components are rated in accordance with ASME as well as EN codes and fabricated with strict quality assurance and extensive testing.

NORAM SX[™] standard pipes and fittings are available from stock or are custom made. The standard range of pipe and fittings cover sizes from 1" (DN25) to 24" (DN600), with larger sizes available on request.

Special parts such as Strainers, Vortex breakers, Thimbles, Thermo-wells and Dip Pipes are also available.

NORAM ENGINEERING AND CONSTRUCTORS LTD.

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Ask about the products and services NORAM supplies to the sulfuric acid industry:

NORAM PLANTS, PROCESSES, SYSTEMS, AND PROCESS EQUIPMENT

NORAM PLANT UPGRADE AND DEBOTTLENECKING ENGINEERING STUDIES NORAM/CPPE HYBRID SULFURIC ACID PROCESS (HSAP)

- NORAM CLEAN START™ PROCESS
- NORAM PLANT PREHEATING SYSTEMS
- NORAM'S TURBOSCRUBBER FOR GAS SCRUBBING
- NORAM STAINLESS STEEL CATALYTIC CONVERTERS
- NORAM RF™ RADIAL FLOW GAS-TO-GAS HEAT EXCHANGERS
- NORAM SF[™] SPLIT FLOW GAS-TO-GAS HEAT EXCHANGERS
- NORAM BRICK-LINED ACID TOWERS
- **NORAM SULFUR & SPENT ACID BURNERS**
- NORAM CELLCHEM SULFUR BURNERS
- NORAM ANODICALLY PROTECTED ACID COOLERS
- NORAM SX[™] ACID COOLERS
- NORAM SX[™] TOWERS AND NORAM SX[™] PUMP TANKS

NORAM EQUIPMENT INTERNALS, PERIPHERALS AND ANCILLARY EQUIPMENT

- NORAM HP™ SADDLE PACKING FOR ACID TOWERS
- NORAM SMART[™] ACID DISTRIBUTORS FOR ACID TOWERS
- NORAM TROUGH ACID DISTRIBUTORS FOR ACID TOWERS
- NORAM SX[™] CHIPGUARD CG[™] ACID STRAINER
- NORAM ENTRAINMENT MITIGATION DEVICE (EMD)
- NORAM ACID DILUTION SYSTEMS
- NORAM SX[™] MATERIAL
- NORAM SX[™] ACID DISTRIBUTORS
- NORAM SX[™] PIPING
- NORAM SX[™] VALVES
- NORAM GAS DUCTING
- NORAM DAMPER
- NORAM SULFUR GUNS

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