

(ReforMax[®]) and low temperature shift catalysts (ShiftMax[®]), Süd-Chemie customers achieve improved hydrogen capacity which is crucial to the successful operation of a modern refinery. The ActiSorb[®] G1 catalyst allows the use of a single material for hydrogenation of organic sulfur compounds and subsequent hydrogen sulfide absorption. A new design concept is now possible due to the bi-functional property of ActiSorb[®] G1 which results in significant investment cost savings. Another area of development is HYSOPAR[®] isomerisation catalysts which provide refiners with greater gasoline yields and higher octane values.


In the area of olefin polymerisation, Süd-Chemie offers C-MAX[®], a series of Ziegler-Natta catalysts which is highly optimised for the manufacturing of polypropylene. It is suitable for a variety of different polypropylene production process platforms. C-MAX[®] catalysts enable PP producers to manufacture their entire product range with high activity, excellent operational control and competitive operational cost. C-MAX[®] catalysts are commercially well proven in several units both for major bulk loop/gas phase and CSTR processes.

Last September, Süd-Chemie acquired Tricat Zeolites GmbH, a producer of zeolite materials (specialty catalysts




Bird's eye view of Süd-Chemie's catalyst production site in Heufeld, Germany.

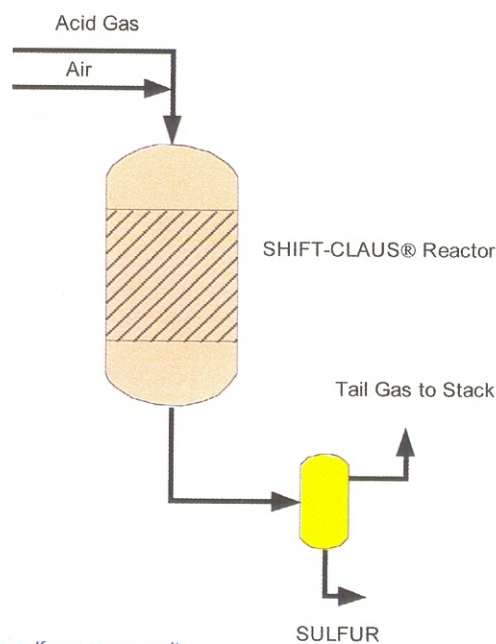
used in the refining and petrochemical industry, as well as in environmental applications) based in Germany. With the acquisition of Tricat Zeolites and the planned expansion of its existing production capacity, Süd-Chemie is reacting to a rapid increase in the global demand for these specialty catalysts.

Süd-Chemie has five catalyst R&D centres worldwide which are located respectively in Germany, USA, Japan, Italy and India for developing tailor made solutions for a global customer base. 

TKK TECHNOLOGY COMPANY

TKK Technology Company (d.b.a. TKK Company) is a unique technology engineering company based in Houston, Texas, USA. In alliance with engineering and construction companies, TKK Company designs, fabricates and supplies commercial units for oil refineries and gas plants globally. The portfolio of TKK Company includes proprietary catalysts for patented SHIFT-CLAUS[®] and TC[™] processes of sulfur recovery. This application can lead to sulfur recovery of up to 99% in regular Claus units. One of the advantages of this catalyst is the involvement of COS/CS₂ of acid gas in the sulfur recovery process. Application of catalyst for TC[™] processes allows the recovery of sulfur from 'weak' acid gases containing less than 32% of H₂S. This process avoids unsafe operation of the Claus unit with split flow configuration. The company has developed and possesses special knowledge on the manufacturing of these catalysts.

In alliance with other corporations, TKK Company is in the process of commercialising both these catalysts for SHIFT-CLAUS[®] and TC[™] processes. SHIFT-CLAUS[®] is a registered trademark of TKK Company. 



The sulfur recovery unit.