



thyssenkrupp to build second polymer plant for KÖKSAN in Turkey

thyssenkrupp's plant engineering business has won a second order from the Turkish packaging producer KÖKSAN for a new PET production plant. The plant will be built in Gaziantep, Turkey, next to an existing production line erected by thyssenkrupp in 2013. Its construction will double the site's production capacity to 432,000 tons of PET resin per year. Completion and commissioning are planned for 2022.

The plant will use the Melt-To-Resin (MTR®) process patented by thyssenkrupp's subsidiary Uhde Inventa Fischer to produce various grades of resin. With this investment, KÖKSAN intends to strengthen its market position both nationally and in the region. The PET will be supplied to the local market as well as to countries of the Middle East, CIS, America, Europe, and Africa regions.

Werner Steinauer, CEO of Uhde Inventa-Fischer: "We are very proud that KÖKSAN chose us to build another state-of-the art PET plant. Our well-proven MTR process offers many advantages compared to conventional technologies, including for example optimized energy consumption and lower production costs. In addition, the plant can be fed with a certain amount of recycled PET to meet the changing needs of customers and local authorities."

thyssenkrupp's scope of supplies and services includes the licence, basic and detail engineering, supply of all major plant equipment and supervision of the erection and commissioning activities. Furthermore, the operating personnel of KÖKSAN is going to be trained by the specialists from thyssenkrupp.

M. Murat KÖKOĞLU, CEO of KÖKSAN: "We are very happy to announce the signature of the second contract with thyssenkrupp, as already the first production line in Gaziantep delivers excellent performance and product quality continuously. In addition, we are currently examining the joint construction of a further PET polymerization plant based on chemical recycled PET for various textile and packaging applications."

Economic and environmental advantages due to resource efficient production and PET recycling

The MTR process developed by thyssenkrupp is a continuous polycondensation process that obviates the need for the solid-state-post-condensation process steps in the

production of PET resin. This leads to substantial energy savings, reduced investment, operating and maintenance costs and a higher raw material yield compared to conventional technologies. The technology meets today's demand for sustainability by reducing the carbon footprint in terms of fuel and electrical energy by up to 30 percent.

Additionally, a retrofitting of the plants with thyssenkrupp's FTR (Flakes-To-Resin) recycling technology is possible at any time and allows the replacement of up to 50 percent of the raw materials without affecting food approvals for the final product. The process is based on the 2-reactor technology, which uses the patented ESPREE® and DISCAGE® reactors to obtain the desired high melt viscosities.

About us:

thyssenkrupp Industrial Solutions AG is a leading partner for the engineering, construction and service of industrial plants and systems. Based on more than 200 years of experience we supply tailored, turnkey plants and components for customers in the chemical, fertilizer, cement, mining and steel industries. Around 11,500 employees worldwide form a global network with a technology portfolio that guarantees productivity and cost-efficiency to the highest extent possible.

The Chemical & Process Technologies business unit combines decades of experience in the engineering, procurement, construction and service of chemical plants. Our product range includes leading technologies in the fields of fertilizers, electrolysis, polymers, base chemicals, high-pressure solutions, coke plants and refining as well as innovative storage solutions for the growing renewables sector. Based on a unique combination of engineering experience, project management expertise and leading, resource-friendly processes, we develop customized solutions that enable chemical manufacturers around the world to enhance their efficiency and competitiveness.

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