

Butyl Rubber Slurry Transfer Pumps Lanxess

Application market	Industry
Market segment	Chemical
Pumped medium	Rubber Slurry
Pump product	Bearing Frame
Country	Singapore



Challenge

Hidrostal was involved in the project team of the companies Foster Wheeler and Lanxess to test the suitability of Hidrostal pumps for pumping butyl rubber slurries with temperatures of 120° C for elastomer production.

Solution

Thanks to its excellent properties, even viscous media can be pumped without problems, the Hidrostal Screw Centrifugal Pump has been selected for pumping products with higher solids concentration. These are rubber slurries with a solids content of approx. 8% by weight. The pumps are made of a special combination of materials, including O-rings made of a Kalrez compound, and mounted on a special base plate which is able to compensate the thermal expansions caused by the large temperature differences present in this application.

Benefits

The task was solved to the full satisfaction of the customer.

- viscous compounds can be pumped without problems
- Six (6) larger H05K pumps are additionally installed and used for the same application at this location

Quantity of units sold	8
Pump type	F04K-S05R + FGS5F-C with Cartridge mechanical seal
Motor data	37.0 kW / 4 pole / 50 Hz / 400 V / Ex-proof
Material combination	Stainless steel hydraulic unit with Duplex stainless steel impeller
Duty point	Flow : 50.0 litres per second / Head : 30 meters
In operation since	2012