PLINKE

Nitric Acid Concentration Plant handed over to BC-MCHZ

The commissioning of the nitric acid concentration plant at BC-MCHZ Ostrava site Czech Republic was successfully completed half a month earlier than scheduled.

PLINKE was responsible for engineering, supply and erection of the complete plant except the building which was part of BC-MCHZ.

During the performance test all guarantee figures have been obtained from the plant with a name plate capacity of 165 tons per day Nitric Acid 100 %.

The plant consists of one unit where the feed acid is pre-concentrated by rectification up to nearly azeotropic concentration. The acid is then further concentrated up to 98 % HNO_3 in a high concentration unit using extractive rectification with magnesium nitrate.

The magnesium nitrate process is one of the well proven processes of PLINKE for high concentration of nitric acid. The magnesium nitrate, diluted in the process, is re-concentrated and recycled to the high concentration unit.

This plant was the second delivered by Plinke to BC-MCHZ. The first one was a plant for nitration of benzene on adiabatic process which is now in operation since 1998.

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