

Improved Process for the High Concentration of Nitric Acid using Magnesium Nitrate

The high concentration of weak nitric acid using magnesium nitrate is a proven technology since years. Due to higher requirements in regard to product quality, effluent gas and effluent water purity as well as due to the necessity to reduce the energy consumption and the amount of raw materials the process has been improved.

Additional process steps are applied. Using recycled water condensate from the process losses of nitric acid with the effluent gas and the process condensate are minimised. Consequently the NO_x content of the effluent gas and the nitrate content of the effluent water are minimized.

Due to this development a reliable eco-efficient process for high concentration of nitric acid is furthermore optimized using best available techniques (BAT) and a design according to European guidelines for Integrated Pollution Prevention and Control (IPPC).

For further information see the related article

„Verbessertes Verfahren zur Salpetersäurehochkonzentrierung mit Magnesiumnitrat“

Chemie Ingenieur Technik, 2004, 76, No. 7

WILEY-VCH Verlag GmbH & Co. KGaA, Weinheim

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