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PLINKE
Environmental Protection, Product Recovery

Safe Treatment of Nitration Spent Acid

Guest speach at SAFEX Conference

Speaker:

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CEO

Dr. Hansjuergen Winterbauer
Director Development / Patents

Maximum safety

➤ Process Parameters

- **user friendly**
- **safe in every aspect**
- **minimized number of steps**

➤ Materials of Construction

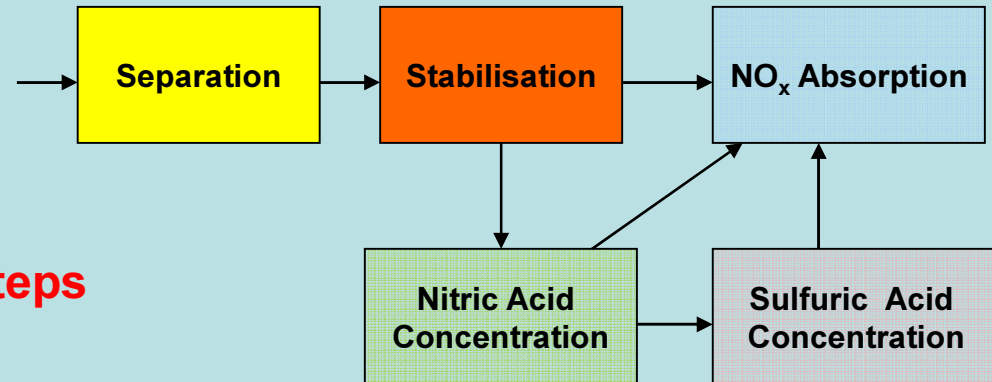
- **corrosion resistant**
- **temperature resistant**

➤ Process Control

- **tailor made solutions**

➤ Preventive Maintenance

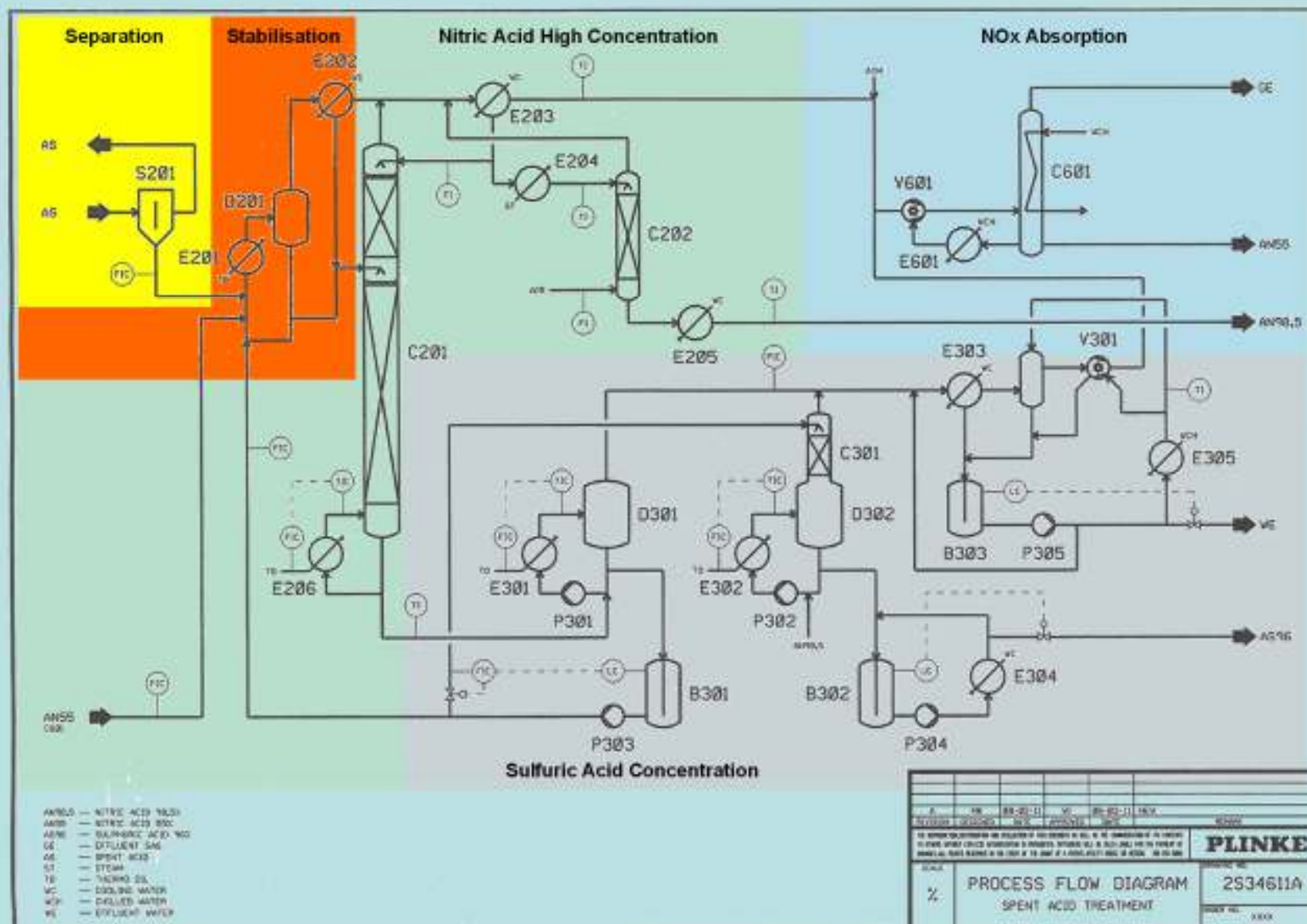
- **tailor made consulting**



Spent Acid Recovery Process

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General Safety Aspects

Separation

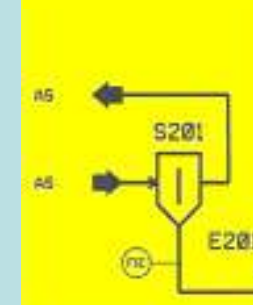
Stabilisation

- Separation of not dissolved organic material
- Controlled complete decomposition
- Experience in gas development
- Selection of most suitable treatment conditions

No dangerous compounds to enter the following steps!

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Separation



New Materials for more Safety
Condenser for Nitric Acid 99 % HNO_3

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Usual Glass Condenser Battery



- **> 100 Gaskets in the system**

PLINKE Niobium Condenser

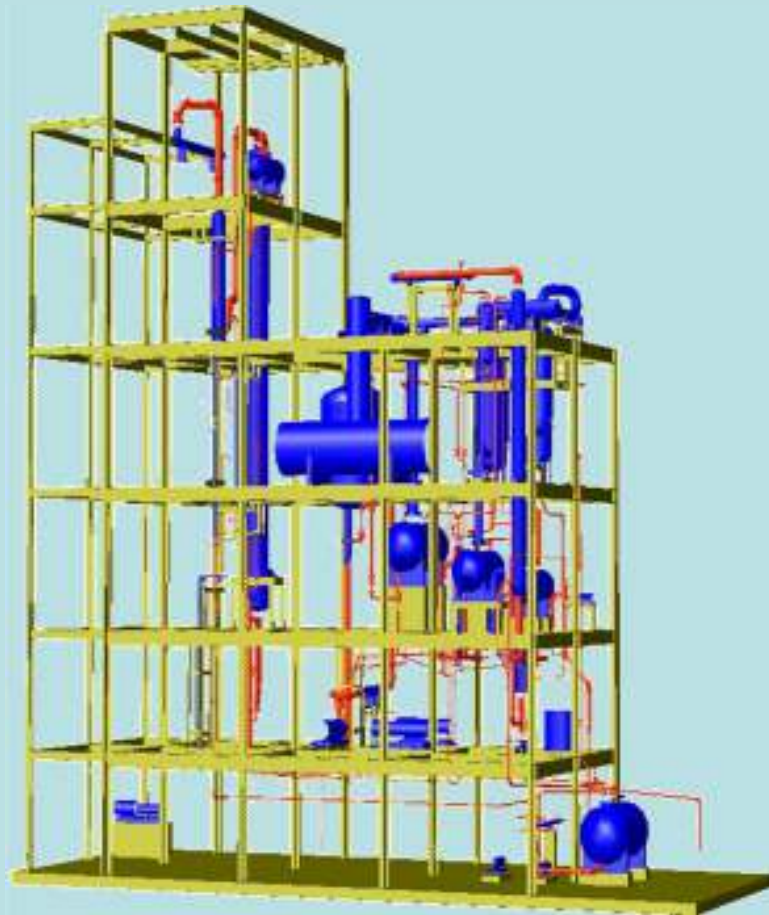


- **5 Gaskets at same capacity**
- **Less: costs (CAPEX and OPEX)**
space requirements
hold up

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In operation



CAD plan

Thank You

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