



## Press information

**Nitrogen + Syngas 2014 – International Conference & Exhibition, 24-27 February, Marriott Rive Gauche, Paris, France**

**Sandvik Materials Technology**

**Stand: 35**

### **Dedicated materials engineered to maximum uptime in highly corrosive conditions**

Sandvik's extensive expertise and product portfolio will feature at Nitrogen + Syngas 2014 with special high-alloy, seamless stainless steel tubing and materials developed for aggressive applications in fertilizer processing plants.

Products featured will include Sandvik 3R60 Urea Grade, Sandvik 2RE69 and Safurex™ stainless steels specially designed for service in highly corrosive conditions in the urea industry.

Widely used in high pressure piping, Sandvik 3R60 Urea Grade is a high purity variant of ASTM 316L with a low ferrite content making it highly resistant to general and intergranular corrosion.

Sandvik 2RE69 provides excellent resistance to corrosion in ammonium carbamate and nitric acid with excellent resistance to intergranular corrosion as well as high resistance to pitting and crevice corrosion. Originally developed for stripper tubes used in the production of urea, it is also highly resistant to inorganic acids. High chromium content of 25% provides greater resistance to oxidation, improved hardenability and strength, while a high nickel content offers greater corrosion and heat resistance. Although increased nickel content can mean more cost, this is offset by the extended operational performance in aggressive environments of Sandvik 2RE69, and offers crucial lifecycle cost advantages over standard stainless steels.

The high alloy duplex stainless steel Safurex™, developed together with Stamicarbon, is widely used in stripper tubes, pool condenser tubes, ferrules, high pressure piping, scrubbers, linings, overlay welding, reactor trays and for high pressure valves.

A highly corrosion resistant tube material, developed specifically for the Stamicarbon urea synthesizing process, it is designed to enable a significantly reduced oxygen process which increases both output and safety while also lowering operational costs.

“Our dedicated range of seamless stainless steel tubes have all been developed based on our extensive service and experience in the urea and nitric production processes,” explained Mike Jordan, Portfolio Manager Special Projects at Sandvik.

“Special corrosion resistant alloys able to withstand the highly aggressive environments found in processing plants have seen Sandvik achieve numerous operational records in processing plants worldwide. It is the ability to advise customers, based on our extensive experience, on the best material for a given application that can lead to significant operational benefits, maximizing output and plant uptime.”

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### **Sandvik Materials Technology**

Sandvik Materials Technology is a world-leading developer and manufacturer of products in advanced stainless steels and special alloys for the most demanding environments, as well as products and systems for industrial heating.