

Springs high-gloss electropolished with Poligrat process E269

Picture: Poligrat

ELECTROPOLISHING

A new electrolyte for electropolishing stainless steel

The new electropolishing electrolyte E 269 from Poligrat is an universal electrolyte, applicable to the full range of alloys and structures. Austenitic, Ferritic, Martensitic and Duplex qualities can be electropolished to the same high quality in gloss and leveling.

Compared to commonly used electrolytes, the E 269 provides comparable gloss and leveling at the same current density in 30-50% less time resulting in correspondingly less consumption of electrolyte and increase of production capacity. Comparable polishing parameters will produce a significantly higher gloss.

The electrolyte E 269 has a working range of metal content between 0 and 7%. Fresh electrolyte polishes already from the beginning without any

metal content. The working temperatures covers the range of 30 to 80 °C adapted to alloy and structure of the stainless steel to be polished.

The electrolyte E 269 polishes at current densities from 2,5 A/dm² onwards on austenitic qualities. This results in a superior throwing power and makes jiggling much easier.

The electrolyte E 269 can be used on the complete range of parts and size. Treatment of small mass produced precision parts in barrels will provide the same good results as treatment on jigs or of large components like vessels and reactors. There is a big advantage for electropolishing of thin-walled parts and loose parts in barrels.

The properties of the new electrolyte E 269 offer significant advantages in view of economy and quality and make

it for the first time possible to cover all demands for electropolishing of stainless steel with one single electrolyte.

Poligrat is also presenting BrassChem, the company's newest development in chemical polishing of brass. BrassChem is an environmentally friendly process with low costs and high performance.

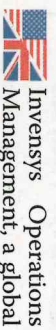
BrassChem provides by a two-step dipping process a surface quality and deburring potential, which before could only be achieved by high-quality electropolishing.

The total surface area in contact with BrassChem will be polished without problems by shadows, gas traces or throwing power. The treatment time is in the range of a few minutes.

★ **Poligrat GmbH**,
Hall 11.0, Stand A27

DYNAMIC SIMULATION SOFTWARE

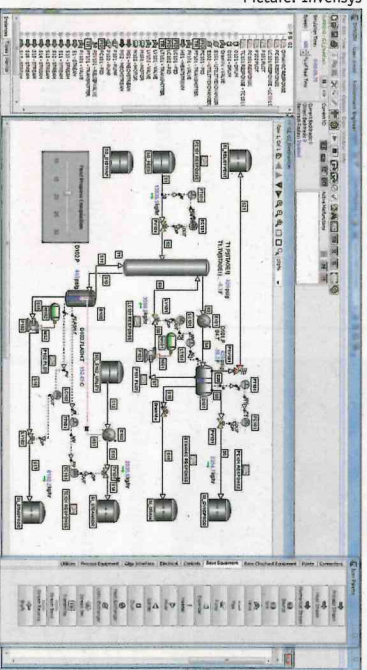
Improve safety, reliability and profitability



Invensys Operations Management, a global provider of technology systems, software solutions and consulting services to the manufacturing and infrastructure operations industries, has issued the newest release of its SimSci-Esscor dynamic simulation software. Version 5.0 of Dynsim software contains many additional features that expand its capabilities, improve its performance, lower total cost of ownership, extend usage and greatly reduce the time required to engineer and build process models.

Dynsim software is a rigorous, first-principle dynamic simulator that predicts the time-dependent behavior of

Picture: Invensys



A flowsheet for a deethanizer viewed in Dynsim

industrial processes. Dynamic simulation studies that are commonly performed with Dynsim software include distillation column relief-load reduction, compressor startup

and surge analysis, depressuring analysis, refinery steam control and more.

★ **Invensys Operations Management**,
Hall 11.0, Stand A3

CHLORALKALI-ELEKTROLYSE

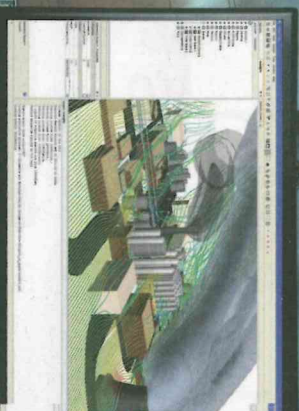
Das Aus für Amalgam

AlkzoNobel rüstet im IndustriePark Frankfurt-Höchst seine Chlor-Alkali-Elektrolyse vom Amalgam-Verfahren auf das moderne Membranverfahren um. Während des Umbaus werden die vorhandenen Amalgamzellen durch ThyssenKrupp Uhde-Membranelektrolyseure in Einzelement-Bauweise ersetzt. Auch die Produktionskapazität wird um rund 50 Prozent auf 250.000 Tonnen Chlor und 275.000 Tonnen Natronlauge pro Jahr gesteigert. Die Inbetriebnahme planen die Ingenieure für das vierte Quartal 2013. Dr. Sami Pelkonen, Leiter des Bereichs Elektrolysen von Thyssen Krupp Uhde freut sich vor allem über die Tatsache,

dass die neue Technik an einem Standort eingesetzt wird, wo Uhde einst die erste Membranzelle entwickelt hat. Zum Auftragsumfang des Anlagenbauers gehören das Basic und Detail Engineering der Elektrolyseure, deren Lieferung sowie die Inbetriebnahmeüberwachung. „Der Energieverbrauch pro Tonne Produkt wird um fast 30 Prozent verringert“, sagt Martin Riswick, General Manager des Alkzo Nobels Chlor-Alkali-Geschäfts. Das unterstützte die Ambitionen, während im Bereich Nachhaltigkeit in der Chlor-Alkali-Industrie zu werden. *agk*

★ **Thyssen Krupp Uhde GmbH**,
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