## **Product Information**

# Noblyst® 3900

### Ruthenium on alumina fixed bed catalyst

### **PRODUCT DESCRIPTION**

Noblyst® 3900 is a highly active ruthenium on alumina catalyst.

With designed shape and low-content Ruthenium, this spherical catalyst can be operated in ammonia cracking or partial cracking with excellent performance at low temperature.

| roperty         | Unit  | Value         |
|-----------------|-------|---------------|
| ppearance       |       | black spheres |
| ET Surface Area | m²/g  | 160-220       |
| ulk Density     | kg/m³ | 640-780       |
| article Size    |       | 1.6-2.2 mm    |

# **TYPICAL APPLICATIONS**

ammonia cracking and partial cracking

| •                     |      |       |
|-----------------------|------|-------|
| Product Composition   | Unit | Value |
| uthenium (Ru) Content | wt%  | 1.5   |

### **BENEFITS & ADVANTAGES**

- superior chemical reactivity and selectivity
- high ruthenium dispersion predominately in the outer zone of the alumina spheres
- · high surface area
- development of tailor-made catalysts in the context of an exclusive project possible
- · full precious metal service loop

# HANDLING & PROCESSING

Activation: The catalyst is reduced and stabilized with air. Reduction with hydrogen or hydrogen containing gas is necessary to activate the catalyst.

An activation procedure is available on request.

Typical Operating Conditions:
• NH3 GHSV: 500-30,000 1/h

Pressure: Ambient - 5 MP
Temperature: 400 - 700 °C

Sampling will be made under sample name CPC SP2900

# **PACKAGING**

Octolyst® is supplied in 210 liter steel drums, net weight is approx. 170 kg

### **STORAGE**

Drums should be stored in a dry place, not be exposed to direct sunlight and be protected from freezing.

### **SHELF LIFE**

Subject to the appropiate storage conditions, the shelf life of Noblyst® catalysts in sealed orginal drums is > 3 years from date of shipment.



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