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To the extent permitted by applicable law, our liability shall be governed exclusively by the terms of the respective contractual relationship and by our General Terms and Conditions in their current version. These are available at www.agosi.de/download

Agosi is part of the Umicore Group, headquartered in Brussels. Umicore combines expertise in materials science, chemistry and metallurgy and operates in the business areas of Battery Materials, Catalysis, Recycling and Specialty Materials.

Together with its affiliated companies in Austria, Thailand, North America and South America, Agosi forms the Jewelry & Industrial Metals business unit within the Umicore Group. Its portfolio includes precious metal services, semi-finished products, trading products and refining services for the precious metals processing industry.

Agosi is certified according to the Responsible Jewellery Council's Chain of Custody Standard (RJC CoC). In addition, the company holds the LBMA recognitions „Responsible Gold“ and „Responsible Silver“. Thus Agosi can offer certain precious metal products according to the respective standard requirements.

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The current General Terms and Conditions apply (www.agosi.de/download).

2026-09 NETZWERKMEISCH DE



Precious Metals and Chemistry

Silver crystals and silver gauzes

Your Partner for Precious Metals

For over a century, Agosi has specialised in the recovery of precious metals and in manufacturing precious metal products. Especially for its customers in the chemical industries, Agosi can offer high-quality silver crystals and silver gauzes.

Silver catalysts for formaldehyde production

Consequent material and process improvement in the field of silver catalyst (purity $\geq 99.99\%$) have resulted in a high quality standard and economic efficiency in industrial applications. Test results regarding purity, surface structure, bulk density and durability demonstrate to the customised process improvements for formaldehyde production that Agosi has achieved.

With its own refining facilities, Agosi can offer the entire precious metal cycle and thus make used silver catalyst directly available for the customer again. Agosi is certified according to DIN EN ISO 9001, 14001, and as a specialist reprocessing company.

Your benefits:

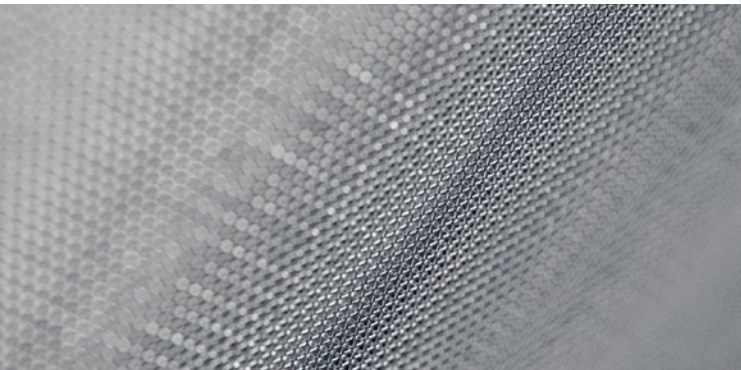
- » spherical shape $\rightarrow$ high mechanical strength, hence supports a long service life of the catalyst
- » light bulk density $\rightarrow$ longer bed life (up to 12 months), low pressure drop
- » large surface area ($\geq 80 \text{ mm}^2/\text{g}$) $\rightarrow$ high methanol conversion into formaldehyde, few side products, supports efficient formaldehyde production
- » high purity (silver catalyst $\geq 99.99\%$)



Hightech products

Silver crystals and silver gauzes are used as catalysts in the chemical reactions of methanol to formaldehyde. By continuously optimizing the physical properties of silver catalysts we supply our customers with innovative products whose technological development is designed to support efficient operation. Silver crystals with low bulk density and different grain sizes as well as silver gauzes with various mesh widths and wire diameters complete our range of products and ensure that we meet the specific needs of each individual application.

Both partners, Agosi and its Austrian subsidiary Ögussa, are specialised in the production of catalysts: while Ögussa produces silver gauzes corresponding to customer requirements, Agosi supplies silver crystals in various grain sizes and structures.



Precious Metal Refining

At the end of the silver catalyst's life, the precious metal bearing material enters Agosi's refining facilities. Refining and regeneration into high-quality products are a full service package. Thus Agosi returns recovered precious metals to industrial use through refining and reprocessing and ensures their efficient use and economical re-use for their application in the chemical industries. Our clients are offered reliability, quality and competent technical application services in all the questions on precious metal products and recycling, as well as on logistics and technological and innovative support.



Technical Data

AgosiSilverCatalyst

chem. specification	standard grain sizes			service
max. impurities	DIN ISO 3310 mm	mesh ASTM E11	bulk density g/l	
Ag $\geq 99.99\%$				recycling of used silver catalyst
$\leq 100 \text{ ppm}$	0.35 - 0.15	-45 + 100	≤ 3200	
Au $\leq 10 \text{ ppm}$	0.50 - 0.35	-35 + 45	≤ 2800	
Pd $\leq 10 \text{ ppm}$	1.00 - 0.50	-18 + 35	≤ 2100	
Pt $\leq 10 \text{ ppm}$	2.00 - 1.00	-10 + 18	≤ 1800	
Cu $\leq 25 \text{ ppm}$	2.00 - 0.50	-10 + 35	≤ 2100	
Ni $\leq 5 \text{ ppm}$				
Pb $\leq 5 \text{ ppm}$				
Cr $\leq 5 \text{ ppm}$				
Fe $\leq 5 \text{ ppm}$				
Mn $\leq 5 \text{ ppm}$				
Al $\leq 5 \text{ ppm}$				
S $\leq 10 \text{ ppm}$				
Cd $\leq 5 \text{ ppm}$				
Further grain sizes on request.				

AgosiSilverGauzes

specification		product	service
mesh/cm ²	64	further mesh widths and wire diameters as well as alloy compositions on request	precious metal refining
wire-ø	0.35mm		
weight	ca. 1650g/m ²	rectangular: breadth and length according to customer specification round: diameter according to customer specification	
fine silver	99.99%		