

## Performance Catalysts

„Combining Competences for Process Excellence in ammonia conversion“

### Technical Data Sheet

### MKS Modulares Katalysator System™: MEGAPYR Separator gauzes

#### 1. Description

MEGAPYR separator gauzes serve the purpose to keep the different layers of the getter system apart from each other and to stabilize the getter system. Usually the separator gauzes are woven structures made of inert alloys that do in no way affect the catalyst and getter system with regard to their efficiency.

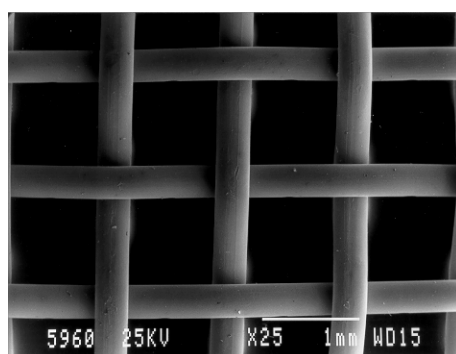


Fig.: Typical woven gauze structure

#### 2. Gauze characteristics

Gauze type:	woven (DIN ISO 9044)
Warp thread:	0,350 ± 0,008 mm (DIN ISO 4782)
Weft thread:	0,350 ± 0,008 mm (DIN ISO 4782)
Gauze weight:	950,0 ± 47,5 g/m <sup>2</sup>
Gauze diameter:	± 5,0 mm tolerance (for round shaped gauzes)
Gauze surface:	corrosion-free
Mesh density:	85/cm <sup>2</sup>
Mesh width:	0,108 cm distance from midpoints of warp and weft wire

#### 3. Alloy composition

Alloy type according to material number 1.4767 (German Material Number Index) DIN 17470

Symbol: CrAl 20 5 (X8CrAl 20-5)

Element	Cr	Al	Fe	S	P	C	Mn	Si
Wt.-%	19,0 – 22,0	4,0 – 5,5	Remainder	≤ 0,03	≤ 0,045	≤ 0,1	≤ 1,0	≤ 1,0

**Umicore AG & Co. KG, Rodenbacher Chaussee 4, D – 63403 Hanau phone: +49.6181.59.5287 e.mail: platinum@eu.umicore.com**

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