

## Needle Silver Catalyst

### *Fine, bright dendritic crystalline particles.*

Materion's needle silver is used as a catalyst in the oxidation of methanol to formaldehyde. High surface area and low specific density reduce silver use. Additionally, increased production yields and reduced contaminant production results in a lower total cost per reactor.



### Silver Assay

Ag<sup>1</sup>            99.99% Minimum

### Chemical Composition<sup>2</sup>

Element	Weight %	Element	Weight %
Cu	0.008% Max	Cd	0.001% Max
Ni	0.001% Max	Pb	0.001% Max
Fe	0.001% Max	Zn	0.001% Max
Te	0.0005% Max	Al	0.001% Max

### Physical Properties

Mesh Size <sup>3</sup>	Bulk Density (g/cc)	Screen Analysis (%) <sup>4</sup>
8 x 16	2.7 – 3.7	55%
16 x 30	2.8 – 3.8	65%
30 x 60	2.9 – 3.9	65%
40 x 60	3.0 – 4.0	65%
60 x 100	3.4 – 4.2	65%

<sup>1</sup>Higher purities available   <sup>2</sup>Other elemental analysis available   <sup>3</sup>Other mesh sizes available   <sup>4</sup>Minimum percentage in mesh range