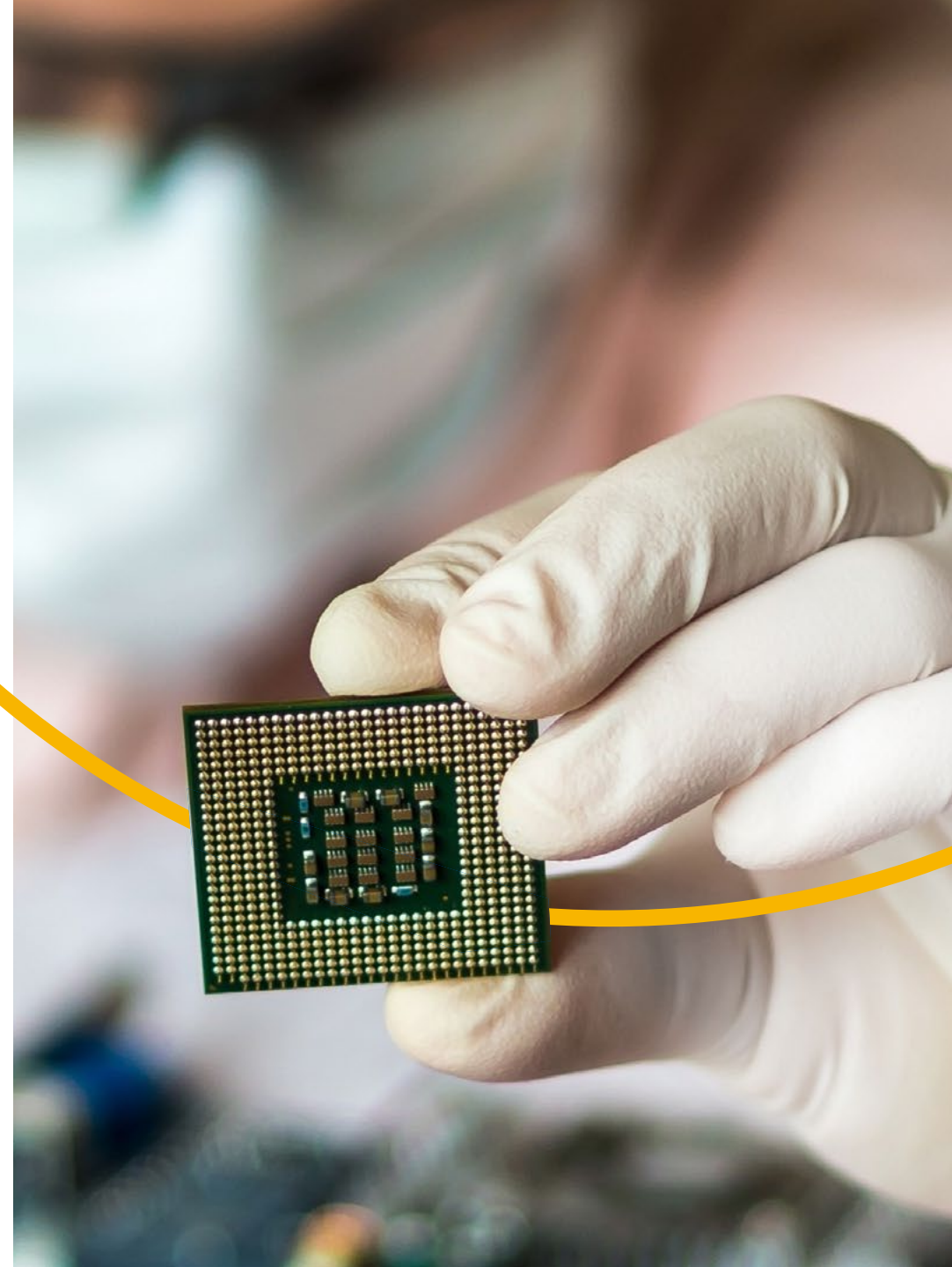
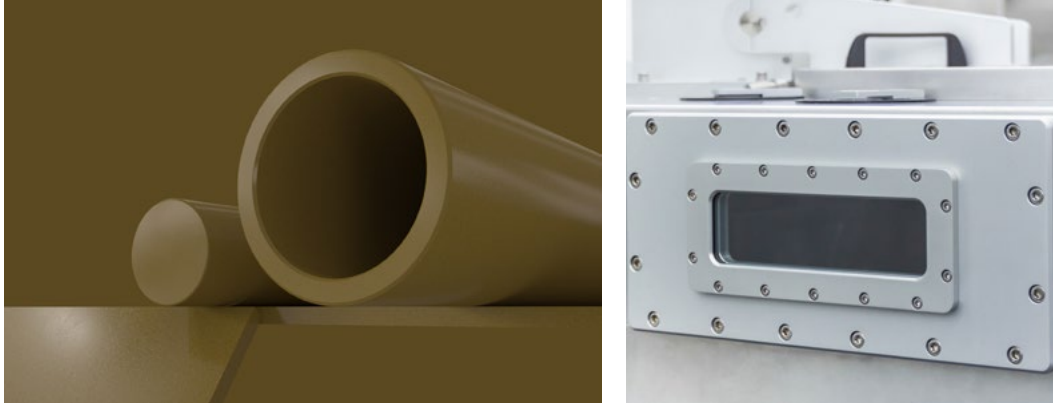




# Semitron<sup>®</sup> MPR 1000





## Clean, resistant and optimized material solution for vacuum chambers

Semitron® MPR 1000 possesses excellent heat resistance and low rates of erosion in plasma chambers. Due to these characteristics, it is often chosen for vacuum chamber applications within etch, CVD, and ion implant sub segmentations in the semiconductor and electronics industry.

The product shows increased lifetime over traditional materials such as polyimide, for example up to 25x over polyimide in ozone in some cases, and is often specified against traditional materials used in vacuum chamber applications such as quartz, ceramics, polyimides and other engineering plastics, as MPR 1000 lasts much longer over time.

### Why Semitron® MPR 1000?

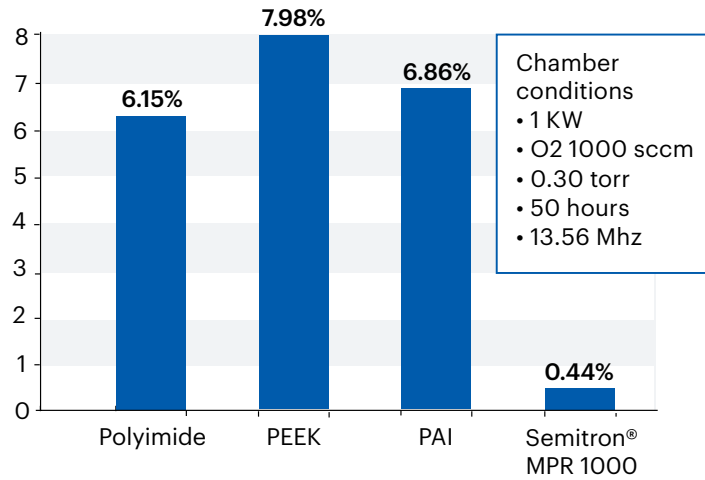
- Enhanced PAI formula
- Low ionic content & low out-gassing
- Excellent heat resistance
- Minimized rate of erosion in plasma chambers
- Optimal chip resistance, durability, and machinability
- Designed specifically for demanding chamber applications

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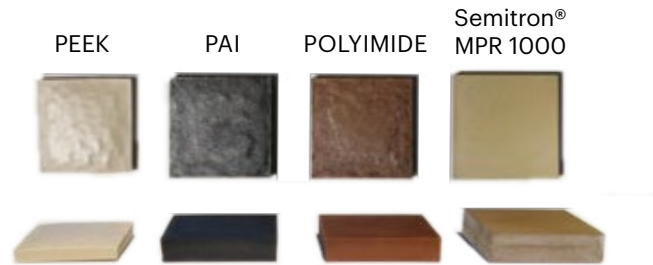
### Recommended applications

- Vacuum chambers that utilize oxygen plasma
- Clamp rings, trench rings, hangers, screw pins, and shower heads
- Centering pins, focus rings, insulators, vacuum pads, and wafer guides

### Percentage of weight loss in oxygen plasma - Lower energy



### 2KW O2 plasma samples - Displays mass loss - All samples started at approximately the same size



Semitron® MPR 1000 has less than 0.5% erosion in 1KW O<sub>2</sub>, 13x better than PI

[Download datasheet](#)

# Get in touch

## Contact.

[contact.mcam@mccg.com](mailto:contact.mcam@mccg.com)

## Visit.

[www.mcam.com/en/contact](http://www.mcam.com/en/contact)

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### Europe

Mitsubishi Chemical  
Advanced Materials NV  
Galgenveldstraat 12  
8700 Tielt,  
Belgium

**Tel: +32 51 42 35 11**

[www.mcam.com](http://www.mcam.com)

### North America

Mitsubishi Chemical  
Advanced Materials Inc.  
2120 Fairmont Avenue  
PO Box 14235 — Reading,  
PA 19612-4235

**Tel: +1 610 320 6600**

### Asia-Pacific

Mitsubishi Chemical  
Advanced Materials Asia Pacific Ltd.  
Unit 7B, 35/F, Cable TV Tower,  
9 Hoi Shing Road,  
Tsuen Wan, Hong Kong

**Tel: +852 2470 26 83**

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