

Address **Umicore AG & Co. KG**  
Platinum Engineered Materials  
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Country Germany

## PRODUCTS OR MACHINERY

### High-Quality PGM Components:

- Bushings
- Crucibles
- Danner Pipes
- Electrodes
- Feeder Cells
- Gob & Stream Feeders
- Orifice Rings
- Plungers
- Refiners
- Stirrers & Stirring Cells
- Tube Mandrels

### Sophisticated Engineering:

- Total System Approach
- Physical Modeling
- Mathematical Simulations
  - o Mechanical Engineering
  - o Electrical Engineering
  - o Thermodynamics
  - o Fluid Dynamics
- Light-Weight Systems
- Patented Constructions
- Bionic Shape Design
- Periphery Correlation
- Life-Time Calculation

### High-Tech PGM Materials

- Engineered ODS Materials
  - o FKS® Agilit® (Pt PtRh)
  - o FKS® Rigilit® (Pt PtRh PtIr PtAu)
  - o FKS® Saeculit® (Rh Ir Au)
- Cast Pt Alloys (Rh Ir Au)
- Material Science (R&D)
- Metallurgy

Chemistry

**Periphery Products:**

Adjusted Ceramic Stones  
Refractories  
Base Metal Accessories  
Engineering of Adapted Steel Frames

**Consulting & Training:**

Life Cycle Management  
o Continuous Improvements  
o Technical Reports  
o Campaign Reviews  
Sophisticated Analytics  
Metals Management  
On-Site Support  
Troubleshooting

Company Profile of **Umicore AG & Co. KG**

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