



Johnson Matthey  
Chemical Products

## Platinum black



### Product name

Platinum black PTBO2

### Chemical formula

Pt

### Product code\*

UK - 183102

\* This product can be ordered worldwide under the UK product code.

### CAS Number

7440-06-4

### Product family

Metal powder

### Process

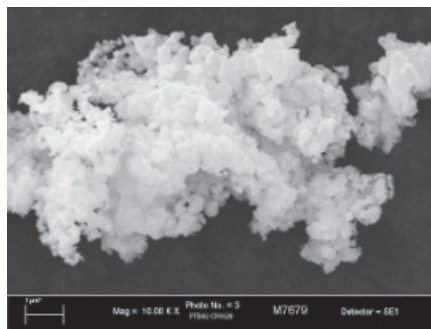
Electrocatalysis

### Market

Gas sensors

### Benefits

Platinum black PTBO2 is a medium specific surface area, high purity catalyst. It is suitable for use as an electrocatalyst in gas diffusion electrodes across a wide range of technologies.



Representative SE image, 1 µm scale bar

### Application

Electrochemical gas sensors, fuel cells and breathalysers.

### Shipping & Handling

Please refer to the relevant Safety Data Sheet for further information.

<b>Form:</b>	powder
<b>Metal content:</b>	≥ 98 % w/w
<b>Specific surface area:</b>	14 – 20 m <sup>2</sup> /g
<b>Particle size:</b>	0.2 - 0.4 µm
<b>Loss on drying:</b>	≤ 0.5 % w/w
<b>Loss on reduction:</b>	1.2 – 2.0 % w/w
<b>Total chloride:</b>	≤ 0.2 % w/w
<b>Tapped density:</b>	1.3 – 2.0 g/cm <sup>3</sup>
<b>Scott density:</b>	0.8 – 1.2 g/cm <sup>3</sup>

[www.chemicals.matthey.com](http://www.chemicals.matthey.com)  
Johnson Matthey, Orchard Road  
Royston, SG8 5HE, UK  
Tel. +44 1763 253000