

JOHNSON MATTHEY, CHEMICALS MANAGEMENT SYSTEM

SPECIFICATION

| | | | |
|--------------------------|---|-------------|--|
| Compound | Platinum Black - High Surface Area (HSA) | | |
| Product Ref | 183003 | | |
| Appearance | Black powder | | |
| Loss on drying | 0.8 % ^w / _w maximum | | |
| Loss on reduction | 1.9 - 3.5 % w/w | | |
| Total Cl | 0.08 % w/w maximum | | |
| Surface area | 24.4 - 29.2 m ² g ⁻¹ | | |
| Impurities | All figures as detected by spectrographic emission with respect to Platinum | | |
| Precious metals: | | | |
| Pd | 200 | ppm maximum | |
| Au | 30 | ppm maximum | |
| Ru,Os,Rh,Ir,Ag | 20 | ppm maximum | |

Base metals:

| | | | | | | | | |
|----|----------|---------|----|----------|---------|----|----------|---------|
| Al | 20 | ppm max | Sb | <i>1</i> | ppm max | As | <i>1</i> | ppm max |
| Ba | 20 | ppm max | Bi | <i>1</i> | ppm max | B | <i>1</i> | ppm max |
| Ca | 350 | ppm max | Cd | <i>1</i> | ppm max | Co | <i>1</i> | ppm max |
| Cr | 20 | ppm max | Cu | 35 | ppm max | Fe | 80 | ppm max |
| Ga | <i>1</i> | ppm max | Ge | <i>1</i> | ppm max | Pb | 20 | ppm max |
| Li | <i>1</i> | ppm max | Mg | 10 | ppm max | Mn | 20 | ppm max |
| Mo | 10 | ppm max | Nb | <i>1</i> | ppm max | Ni | 20 | ppm max |
| K | 30 | ppm max | Si | 35 | ppm max | Na | 10 | ppm max |
| Sr | <i>1</i> | ppm max | Te | <i>1</i> | ppm max | Tl | <i>1</i> | ppm max |
| Sn | <i>1</i> | ppm max | Ti | <i>1</i> | ppm max | W | 20 | ppm max |
| V | <i>1</i> | ppm max | Zn | 20 | ppm max | Zr | 10 | ppm max |

Note: Italics indicate the limit stated is also the limit of detection for that element

Approved by:

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Quality Assurance

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| RCF 150 183003 | Issue 5 | Page 1 of 1 | Copy | This is an uncontrolled copy correct when published on August 8, 2000 but is liable to change at any time. Before placing an order please check to ensure that the above values still apply |
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