

# Technical Data Sheet

## Silver powder

Revision Date:8/18/2025

### 1 IDENTIFICATION OF THE SUBSTANCE/PREPARATION AND THE COMPANY / UNDERTAKING

|                            |                                                                                                 |
|----------------------------|-------------------------------------------------------------------------------------------------|
| <b>Product name</b>        | Silver powder                                                                                   |
| <b>Product code</b>        | NM-0023-HP                                                                                      |
| <b>CAS</b>                 | 7440-22-4                                                                                       |
| <b>Supplier</b>            | IoLiTec<br>Ionic Liquids Technologies GmbH<br>Im Zukunftspark 9<br>D-74076 Heilbronn<br>Germany |
| <b>Telephone</b>           | +49 (0)7131 - 898390                                                                            |
| <b>Fax</b>                 | +49 (0)7131 - 89839109                                                                          |
| <b>Emergency telephone</b> | +49 (0)151-41255671                                                                             |

### 2 COMPOSITION / INFORMATION ON INGREDIENTS

|                              |                         |
|------------------------------|-------------------------|
| <b>Ingredient name</b>       | Silver                  |
| <b>CAS No.</b>               | 7440-22-4               |
| <b>Empirical Formula</b>     | Ag                      |
| <b>Molecular weight</b>      | 107.87 g/mol            |
| <b>Purity</b>                | 99.95%                  |
| <b>Morphology</b>            | nearly spherical        |
| <b>Average Particle Size</b> | 35 nm                   |
| <b>Specific Surface Area</b> | ~20 m <sup>2</sup> /g   |
| <b>Relative Density</b>      | 10.49 g/cm <sup>3</sup> |

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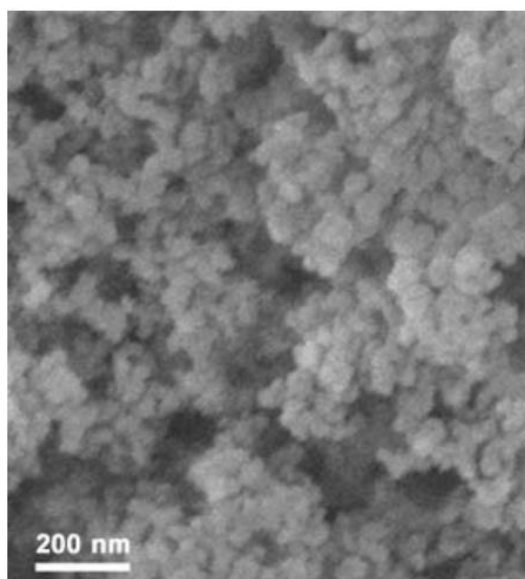
**Melting point** 960.8°C

**Boiling point** 2210°C

### 3 CONTENT OF IMPURITIES

| Impurity | Content   |
|----------|-----------|
| Al       | < 200 ppm |
| As       | < 10 ppm  |
| Bi       | < 100 ppm |
| Cu       | < 100 ppm |
| Fe       | < 100 ppm |
| Ni       | < 100 ppm |
| Si       | < 100 ppm |

### 4 TEM IMAGE



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### 5 OTHER INFORMATION

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