

## Specification Sheet

### Micron Carbonyl Iron Powder

(Purity: 99.99%, APS: 4 $\mu$ m)

Stock No: NS6130-12-000314, CAS: 7439-89-6

<b>Product</b>	:	<b>Carbonyl Iron Powder</b>
Stock No	:	NS6130-12-000314
CAS	:	7439-89-6
Purity	:	99.99%
APS	:	4 $\mu$ m
Molecular Formula	:	Fe
Molecular Weight	:	55.85g/mol
Form	:	Powder
Color	:	Gray
Density	:	7.86g/cm <sup>3</sup>
Melting Point	:	1535°C
Boiling Point	:	2750°C
Thermal Expansion	:	11.8 $\mu$ m•m <sup>-1</sup> •K <sup>-1</sup>
Thermal Conductivity	:	0.804 W/cm/K (298.2 K)
Vickers Hardness	:	608 MPa
Poisson's Ratio	:	0.29
Electrical Resistivity	:	9.71 $\mu$ $\Omega$ •cm (20°C)
Electronegativity	:	1.8 Paulings
Young's Modulus	:	211 GPa
Specific Heat	:	0.106 Cal/g/K @ 25°C
Heat of Fusion	:	3.56 Cal/gm mol
Solubility	:	Insoluble in water
<b>Main Inspect Verifier</b>	:	<b>Manager QC</b>

**Note:** Product Specification are subject to amendment and may change over time

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