

# *Chem-Impex International, Inc.*

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## *Product Specifications*

|                          |   |
|--------------------------|---|
| <b>Catalogue Number</b>  | 48671   |
| <b>Product</b>           | <b>Molybdenum silicide</b><br>Molybdenum disilicide |
| <b>CAS Number</b>        | 12136-78-6  |
| <b>Molecular Formula</b> | MoSi <sub>2</sub>                                   |
| <b>Molecular Weight</b>  | 152.13  |

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|  |   |
|--|---|
| <b>Appearance</b>                      | Dark grey powder  |
| <b>Solubility</b>                      | It is easily soluble in molten alkalies.  |
| <b>Melting Point</b>                   | 1869 - 1871 °C  |
| <b>Density</b>                         | 6.31 cm <sup>3</sup> /g   |
| <b>Elemental Analysis<br/>(Theory)</b> | Carbon (C) : ≤ 0.3%<br>Oxygen (O <sub>2</sub> ) : ≤ 0.8%<br>Nitrogen (N <sub>2</sub> ) : ≤ 0.2% |
| <b>Particle Size</b>                   | ~ -325 mesh   |
| <b>Purity</b>                          | ≥ 61% (Mo), ≥ 36% (Si)  |
| <b>Storage</b>                         | Store at 2 - 8 °C   |

**For Laboratory Use Only**