MOLYBDENUM AND RHENIUM CHEMICALS FOR INDUSTRY

SPECIFICATION SHEET

MOLYBDENUM DISILICIDE CAS Number: 12136-78-6

DESCRIPTION

Molybdenum Silicide is a dark grey powder represented by the chemical formula $MoSi_2$. It is also referred to as Molybdenum Disilicide. The theoretical content is 36.9% Si and 63.1% Mo. It has a particle density of 5.7-6.0 g/cc, and an apparent density (Scott Volometer) of 15-25 g/in³. The melting point is 1870°C. However, it begins to decompose before melting.

Molybdenum Silicide is best known for it's outstanding oxidation resistance at high temperatures up to about 1700°C. At temperatures above 1700°C, rapid oxidation occurs. It is also resistant to most inorganic acids, including aqua regia, and aqueous solutions of alkalies. It is easily soluble in molten alkalies.

SPECIFICATIONS	Specification (%)
Molybdenum (Mo)	>61.0
Silicon (Si)	>36.0
Carbon (C)	<0.3
Oxygen (O2)	<0.8
Nitrogen (N2)	<0.2
Particle Size	325 Mesh

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