



NbC powder basic information introduction

Product introduction:

Niobium carbide,Chemical formula NbC,Molecular weight 104.92,Density 7.56g/cm³ ,Melting point 3490°C,Boiling point 4300°C,Carbon content 11.45%.Niobium carbide is brown-gray metallic powder with purple luster. The powder also is a high melting point and high hardness material with high chemical stability and high temperature function. It is applied to high temperature refractory material and additive in cemented carbide.

Product application:

As the hard alloy chemical additive, it is three Yuan, four Yuan carbide melting component, like WC-NbC-C ternary system and so on. May also make the purple artificial jewel. With the tungsten carbide, the carbonized molybdenum coordination, use in the hot forging die, the cutting tool, the jet engine turbine blade, the valve, the tail skirt and the rocket spray nozzle coating. Applies in domains and so on spray coating material, ultra hard membranous material, welding material.

NbC powder technical data:

GRADE	CHEMICAL COMPOSITION(max,%)									
	Total carbon	Free carbon	Impurities (max,%)							
			Fe	Si	Al	O	N	Na	K	Ca
LF-NbC	≥11.1	≤0.15	0.05	0.01	0.01	0.30	0.02	0.005	0.005	0.01

Particle size:0.5-500micron ,5-400mesh

Particle size and chemical composition are modified on request.