

Technical Data Sheet

Niobium Carbide Powder

Product ID: 410600PD001 - 410600PD003

Formular: CHNb

Molecular weight: 105.93 g/mol

CAS No.: 12069-94-2

EINECS No.: 235-117-8

Color: Dark gray

Description: Our niobium carbide powder features a high melting point, high hardness, excellent chemical stability, and good electrical conductivity, making it an ideal choice for high-temperature structural materials and hard alloy applications.

Application: Hard alloy additives

**Product
Image:**



1. Sizes

Product ID	Formular	Particle Size
410600PD001	NbC (99.5%)	Fsss: $\leq 1.0 \mu\text{m}$
410600PD002	NbC (99.5%)	Fsss: $1.0\text{-}1.5 \mu\text{m}$
410600PD003	NbC (99.5%)	Fsss: $1.5\text{-}3.0 \mu\text{m}$
410600PDDZ	NbC (99.5%)	Customized

2. Chemical compositions

Grade		VINbC-1	VINbC-2	VINbC-3
Chemical Composition%	T.C	11.0 - 11.4	11.0 - 11.4	11.0 - 11.4
	F.C	≤ 0.15	≤ 0.15	≤ 0.15
	Impurity Content% MAX	N	0.05	0.20
		Ta	0.25	0.30
		W	0.10	0.10
		O	0.50	0.30
		Ti	0.02	0.02
		Si	0.01	0.01
		Mn	0.01	0.01
		Na	0.008	0.008
		Fe	0.05	0.05
		Co	0.10	0.10
		Cr	0.10	0.10
		Sn	0.01	0.01
		K	0.008	0.008
		Ca	0.01	0.01

Note: The purity values shown are calculated by subtracting the sum of selected measured elemental impurities from 100%. These values do not represent the result of a full elemental analysis.

3. Packaging

Bottle/Bag.

Double vacuum packed.

4. Period of Validity

It is recommended to use this product within 12 months. If it is overdue, the product quality status should be re-evaluated.

5. Handling and Storage

When using, wear protective equipment (such as gloves, goggles, and a dust mask) to avoid inhalation of dust or skin contact.

Store in a cool, dry, and well-ventilated area. Keep the container tightly closed and avoid contact with strong oxidizing agents.

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