

Technical Data Sheet

Tantalum-Niobium Carbide Powder

Product ID: 73410600PD001 - 73410600PD005

Formular: TaNbC

Molecular weight: /

CAS No.: /

EINECS No.: /

Color: Dark gray

Description: Our tantalum niobium carbide powder features a high melting point, high hardness, excellent thermal stability, and electrical conductivity, making it the preferred material for high-performance hard alloys and high-temperature structural applications.

Application: Hard alloy additives

Product

Image:



1. Sizes

Product ID	Formular	Particle Size
73410600PD001	TaNbC (80:20)	Fsss: 1.0-2.0 µm
73410600PD002	TaNbC (60:40)	Fsss: 1.0-2.0 µm
73410600PD003	TaNbC (50:50)	Fsss: 1.0-2.0 µm
73410600PD004	TaNbC (90:10)	Fsss: 1.0-2.0 µm
73410600PD005	TaNbC (70:30)	Fsss: 1.0-2.0 µm
73410600PDDZ	Customized	Customized

2. Chemical compositions

Grade		80:20	60:40	50:50	90:10	70:30
Chemical Composition%	Ta	71.5±1.5	56.0±1.3	46.9±1.3	84.4±1.5	65.6±1.5
	Nb	21.1±1.0	35.0±1.3	44.3±1.5	8.85±1.0	26.6±1.2
	T.C	7.3±0.3	8.2±0.3	8.8±0.3	6.75±0.3	7.8±0.3
	F.C	≤ 0.15	≤ 0.15	≤ 0.15	≤ 0.15	≤ 0.15
	Impurity Content% MAX	Co	0.10	0.10	0.10	0.10
		Mo	0.10	0.10	0.10	0.10
		Si	0.02	0.02	0.02	0.02
		Fe	0.10	0.10	0.10	0.10
		Ni	0.04	0.04	0.04	0.04
		K	0.008	0.008	0.008	0.008
		Na	0.008	0.008	0.008	0.008
		Mn	0.05	0.05	0.05	0.05
		Sn	0.01	0.01	0.01	0.01
		Ca	0.01	0.01	0.01	0.01
		Al	0.015	0.015	0.015	0.015
		N	0.20	0.20	0.20	0.20
		S	0.01	0.01	0.01	0.01
		O	0.30	0.30	0.30	0.30
		Ti	0.05	0.05	0.05	0.05
		W	0.10	0.10	0.10	0.10
		Cr	0.10	0.10	0.10	0.10

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 place, keeping the container tightly sealed and away from strong oxidizers.

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