



Advanced Material & Metal Compounds

□ Tantalum-Niobium Carbide (TaNbC)

Tantalum-Niobium Carbide (TaNbC) is a solid solution powder of tantalum carbide and niobium carbide, dark grey color. With stable chemical properties, no odor, no toxic, no corrosive and insoluble in water, and with high melting point and high solidity, It is usually used for the refractory material and cemented carbide additive, metal ceramic, and for aerospace etc.



No.	Item		Standard Specification				
1	Grade		90:10	80:20	70:30	60:40	50:50
2	Chemical PCT	Ta	84.4±1.5	71.5±1.5	65.6±1.5	56.0±1.3	46.9±1.3
		Nb	8.85±1.0	21±1.0	26.6±1.2	35.0±1.3	44.3±1.5
		T.C	6.75±0.3	7.3±0.3	7.8±0.3	8.2±0.3	8.8±0.3
		F.C	≤0.15	≤0.15	≤0.15	≤0.15	≤0.15
3	Impurity PCT Max Each	Co/Mo/Cr	0.10	0.10	0.10	0.10	0.10
		Si	0.02	0.02	0.02	0.02	0.02
		Fe	0.15	0.15	0.15	0.15	0.15
		Ni	0.04	0.04	0.04	0.04	0.04
		K/Na	0.008	0.008	0.008	0.008	0.008
		Mn	0.05	0.05	0.05	0.05	0.05
		Sn/Ca	0.01	0.01	0.01	0.01	0.01
		Al	0.015	0.015	0.015	0.015	0.015
		N	0.25	0.20	0.25	0.25	0.25
		Ti	0.20	0.30	0.30	0.30	0.30
		W	0.20	0.35	0.35	0.35	0.35
		O	0.2, 0.25, 0.35				
		4	Size (FSSS μm)		1.0-1.2, 1.2-1.5, 1.5-3.5		
5	Packing		2kgs in composite bag with iron drum outside, 25kg net				

□ Tantalum Carbide (TaC)

Tantalum carbide, brown color powder, with high chemical stability and high temperature character, is an important additive to fine crystalline grain of WC for cutting tool with great hardness similar to the diamond. It can also offer great resistance to the temperature up to 3800°C, and finds wide applications in the field such as hard Alloys, targets, welding materials, cermets, electronics, metallurgy, machinery, and aviation industry.



No.	Item	Standard Specification						
1	TaC	Free C	Total C	Impurities % ≤ each				
2	Chemical	≤0.10%	≥6.20%	O	N	Fe	Na/K	Nb/Ca/Al/Si
				0.150	0.020	0.050	0.005	0.010
3	Size	0.5-500micron, 5-400mesh						
4	Packing	2kgs in composite bag with iron drum outside, 25kgs net						

✉ E2-1-1011 Global Center, No.1700
Tianfu Avenue North, Chengdu 610041, China

☎ Tel+28 8518 7251/7252/7253

Fax+28 8518 4110