



(W,Ti,Ta)C powder basic information introduction

Product introduction:

(W,Ti,Ta)C powder is a kind of raw material extensively applied in hard alloys industry and other new materials industries, and generally it is made by solutionizing two or multiple kinds of carbide and other compound (such as nitride). Adopting unique carbonizing and solutionizing processes, our company produces compound carbide products with advantages such as stable composition, even distribution, high solid solubility, low impurity level and controllable granularity, and the tailor-made products are also available in the company to meet the customers' specific requirements.

Product application:

May improve the hard alloy as the hard alloy and cermet's chemical additive each performance. Also application in hot spraying, plasma spray coating, flinty thin film, electronic profession electric conduction domain.

Product performance and technical:

Our company produces the compound carbide has (Ti,Ta)C,(W,Ta)C,(W,Ti)C,(Ta,Nb)C,(W,Ti,Ta)C,(W,Ti,Ta,Cr)C,(W,Ti,Ta,Nb)C, and so on. These product's chemical composition and the grain-size distribution may request according to the customer to carry on the production.

(W,Ti,Ta)C powder technical data:

GRADE	CHEMICAL COMPOSITION(%)															
	W	Ti	Ta	Nb	Cr	Total carbon	Free carbon	IMPURITY(%max)								
								Fe	Si	Al	O	N	Na	K	Ca	S
(W,Ti,Ta)C-1	63.1±0.5	10.7±0.5	18.0±0.5			7.7±0.3	≤0.3	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-2	48.8±0.5	30.4±0.5	9.4±0.5			11.1±0.3	≤0.2	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-3	47.0±0.5	24.0±0.5	18.8±0.5			10.0±0.3	≤0.2	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-4	42.3±0.5	17.6±0.5	31.0±0.5			9.0±0.3	≤0.2	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-5	35.7±0.5	30.4±0.5	22.5±0.5			11.2±0.3	≤0.2	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-6	36.1±0.5	29.7±0.5	23.0±0.5			11.1±0.3	≤0.2	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-7	37.6±0.5	28.8±0.5	22.3±0.5			10.7±0.3	≤0.15	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-8	63.1±0.5	22.2±0.5	4.7±0.5			9.6±0.3	≤0.15	0.1	0	0	0.3	0.2	0.005	0.005	0	0
(W,Ti,Ta)C-9	31.3±0.5	26.5±0.5	31.2±0.5			10.7±0.3	≤0.2	0.1	0	0	0.3	0.2	0.005	0.005	0	0

Particle size:0.5-500micron ,5-400mesh;Particle size and chemical composition are modified on request.