

Introduction

This powder is gas atomized that is nickel-based alloy matrix blended with cast tungsten carbide (CTC) or spherical cast tungsten carbide (SCC). It is an excellent choice which can be used in decanter applications, steel body bits in oil, gas applications and agriculture parts. It can be used for tailing pipelines, chipper knives and so on. The working temperature can be up to 500 °C (930 °F).

Chemical Composition

Hard Phase Composition(wt.%)				Matrix Alloy Composition(wt.%)						
Phase	W	C	Fe	Phase	Ni	Cr	Fe	B	Si	C
60%	Bal.	3.8-4.1%	<0.3%	40%	Bal.	6.0-8.0%	2.5-3.5%	2.75-3.5%	4.0-5.0%	0.4-0.6%

Applications

- Decanter screws
- Petrochemical equipment
- Mining equipment, Tailing pipelines (elbows)
- Agricultural plowshares, harvester blades, lifting shares and shear bars
- Equipment for bulk material processing

Physical Properties

Morphology	carbide:angular/spherical matrix:spherical
Working Temperature	< 500°C(930°F)
Hardness	angular carbide: 2200~2300 HV spherical carbide: 2600~2800 HV matrix: 60 HRC
Apparent Density	4.5-6.5 g/cm ³

Packaging

Bottle	5kg/bottle 4 bottles/box
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