UP-T

Tungsten Carbide Reinforced Composite Wear Plate

Introduction

UP-T is a composite wear plate whose hardfacing layer is strengthened by tungsten carbide particles evenly distributed in nickel base matrix. Produced by the PTA process, the metallurgical bonding between the Ni-WC hardfacing and the substrate is obtained with approximately 5% dilution, therefore, UP-T is able to maintain the exclusive abrasive wear performance even in one single pass of the overlay.

Composition & Properties

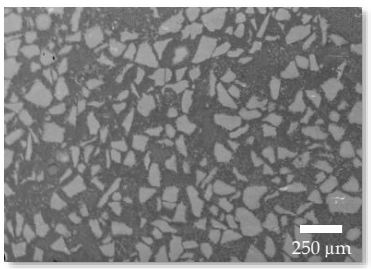
C	W	Si	B	Ni	Other	Hardness (HV)	ASTM G65 Procedure A
2.4	57.6	1.23	1.16	Bal.	-	≥ 2,000 (Carbide) ≥ 500 (Matrix)	≤ 0.07

* Typical data of UP-T(6+3) (Composition in wt%)

Description

Characteristic	Data
Carbide content (vol %)	≤ 50
Standard Thickness* (mm)	Base material ≥ 4mm, Hardfacing 3~6mm
Standard Size* (mm)	600 × 1000
Operation Temperature (°C)	≤ 350
Machinability	EDM, Plasma, Laser cutting Stud bolt, Countersink, Gouging
Formability	R ≥ 250 (for 6+3, overlay inward)
Base Plate*	Q235B (SS400, S235JR)

* Customizable



UP GROUP
E-mail: info@upplate.com
www.upplate.com

