UP-X

Chromium Carbides Hardened Composite Wear Plate

Introduction

UP-X is a common and typical composite wear plate manufactured by open arc welding process and characterized by neat welding beads and fine stress-relief cracks on the surface of the hard layer. Having over 30% volume fraction of hexagonal primary carbides embedded in tough austenitic and martensitic matrix, UP-X possesses high abrasion resistance and is widely used in general wear situation.

Composition & Properties

C	Cr	Fe	Other	Hardness (HRC)	ASTM G65 Procedure A
≥ 4.0	≥ 21	Bal.	-	≥ 58	≤ 0.19

* Hardfacing thickness over 6mm (Composition in wt%)

Description

Characteristic	Data
Standard Thickness* (mm)	3+3, 4+4, 6+4, 6+6, 8+5, 8+6, 10+10, 12+12, 12+25 (Base material + Hardfacing)
Standard Size* (mm)	1,200 × 2,400 1,500 × 3,000 2,200 × 3,000
Operation Temperature (°C)	≤ 450
Machinability	EDM, Plasma, Laser cutting Stud bolt, Countersink, Gouging
Formability	R ≥ 125 (for 6+6, overlay inward)
Base Plate*	Q235B (SS400, S235JR)

* Customizable

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