

# UP-S

Composite Wear Plate  
with Smooth Surface  
and Invisible Crack



Abrasion



Impact



Thermal  
stability

## Introduction

Nearly crack free overlay and smooth surface make UP-S more durable under tough environment than traditional cracked composite wear plates. UP-S has low coefficient of friction that is beneficial to prevent the conveying material from sticking and piling up on the equipment. The metallurgical bonding between the hardfacing overlay and the base plate provides UP-S high interfacial strength against spallation when suffering impaction.

## Composition & Properties

C	Cr	Fe	Other	Hardness (HRC)	ASTM G65 Procedure A
≥ 2.5	≥ 25	Bal.	-	≥ 56	≤ 0.20

\* Composition in wt%

## Description

Characteristic	Data
Standard Thickness (mm)	6+6, 10+10 (Base material + Hardfacing)
Standard Size* (mm)	1,400 × 2,800
Operation Temperature (°C)	≤ 450
Machinability	EDM, Plasma, Laser cutting Milling, Stud bolt, Countersink, Gouging
Formability	R ≥ 250 (for 6+6, overlay inward)
Base Plate*	SS400 (Q235B, S235JR)



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\* Customizable