

UP-I

Bifunctional Multiple Carbide Overlay

UP-I is a wear plate composed of multiple carbides and mild steel plates. Base on our patent welding technique, UP-I has excellent performance in wear resistance as well as the impact resistance that greatly improved by self-designed machine.

HARDNESS	HRC 57-61					
CHEMICAL COMPOSITION (wt %)	C	Cr	Mn	Si	Fe	Other
	> 3.2	> 20	*	*	Bal.	Nb > 2.2
STANDARD THICKNESS (mm)	12 (6+6), 13 (8+5), 14 (8+6), 20 (10+10), 32 (12+20), 37 (12+25) Customized thickness is available.					
STANDARD SIZE (mm)	1200 x 2400, 1500 x 3000, 2200 x 3000 Customized size is available.					
TOLERANCE	+ 1mm - 0.5 mm					
OPERATION TEMPERATURE	< 600 °C (> 500 HV)					
ASTM G65 Procedure A	0.15-0.20 (Undiluted Deposit)					
MICROSTRUCTURE	Uniformly distributed hexagonal Chromium carbides and Niobium carbides imbedded in tough austenitic and martensitic matrix.					
MACHINABILITY	Plasma cutting, Saw cutting, Laser cutting, Water jet cutting, EDM, Gouging, Countersink, Stud bolt					
FORMABILITY	Minimum Radius: 150 mm (for 6+4, with overlay inward) Suggested: using hydraulic press machine to bend UP-I					
APPLICATION	Dump truck tray, Screens in mining, Chute & hopper liners and so on					

***UP-I is good for severe sliding abrasion
accompanied with high impact***