

# UP-N

## Anti-wear Multiple Carbide Overlay

UP-N is a wear plate composed of multiple carbides and mild steel plates. Base on our patent welding technique, UP-N has excellent performance in wear resistance along with moderate impact resistance.

HARDNESS	HRC 60-64					
CHEMICAL COMPOSITION (wt %)	C	Cr	Mn	Si	Fe	Other
	> 3.8	> 15	*	*	Bal.	Nb > 3.3
STANDARD THICKNESS (mm)	12 (6+6), 13 (8+5). 14 (8+6), 20 (10+10), 30 (15+15) Customized thickness is available.					
STANDART SIZE (mm)	1200 x 2400, 1500 x 3000, 2200 x 3000 Customized size is available.					
TOLERANCE	+ 1mm - 0.5 mm					
OPERATION TEMPERATURE	< 600 °C (> 550 HV)					
ASTM G65 Procedure A	0.12-0.17 (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-N					
APPLICATION	Ash pipe lines, Duct, Conveyor casing, Chute & Hopper liner, Classifier, Ore chute, Fan blade, Cyclone, Discharge funnel, Slag chute and so on					

***UP-N is good for severe sliding abrasion  
and fine particle abrasion***