

Wearalloy Nickel Chrome Plus has a rich chemistry. It is a heat treated, quenched and tempered alloy steel plate. The steel is fully killed, vacuum de-gassed, fine grained, and desulfurized. The addition of nickel and chrome provides improved toughness, increased hardenability, and better corrosion resistance for shock and abrasion applications.

Carbon	Mang.	Phos.	Sulfur	Silicon	Nickel	Chrome	Moly.	Ti
.18-.26	.50-.92	.015 max.	.005 max.	.60 max.	.85 max.	1.40-1.75	.20-.30	.027

BHN Hardness	444 - 490	1/4" - 2"
Yield	180,000 - 230,000 psi.	
Tensile	216,000 - 240,000 psi.	
Elongation in 2"	14%	
Color Code	Gold	

Charpy V-Notch Data		Energy Absorbed - Ft. Lbs.			
Plate Thickness	BHN	Longitudinal		Tranverse	
		70°F	-40°F	70°F	-40°F
1/2"	450	40	31	28	23
1"	450	22	19	23	14

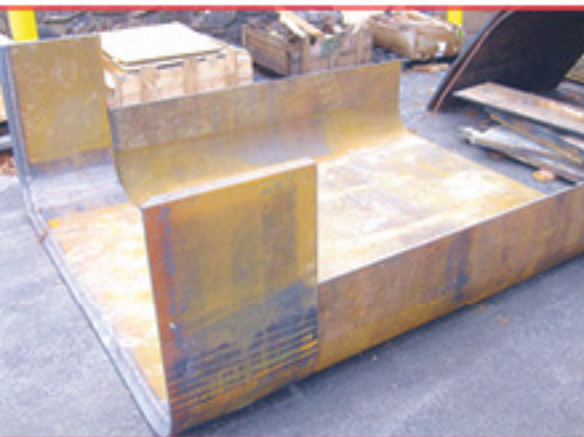
**Thicknesses:** 1/4", 3/8", 1/2", 5/8", 3/4", 1", 1-1/4", 1-1/2", 2"

**Widths:** 48", 96" **Lengths:** 120", 240", 288"

**WELDING:** For welding Wearalloy Nickel Chrome Plus, we recommend that low hydrogen electrodes be used; such as E-70XX, E-80XX, E-90XX, E-100XX, and E-110XX. Pre-heating is recommended on plates thicker than 1-1/2".

**DRILLING AND MACHINING:** Wearalloy Nickel Chrome Plus is a free machining plate with standard carbide indexable drills and end mills. As the hardness level of the plate increases, it is necessary to decrease the cutting speed and feed depth.

**FORMING** Wearalloy Nickel Chrome Plus can be formed with or perpendicular to the cross grain of the plate. At sharper bends, it is recommended that forming should be performed with the axis of bend at right angles to the rolling direction or cross grain of the plate.



### APPLICATIONS

Loader Cutting Edges  
Truck Bed Liners  
Mold Board Liners  
Chute and Ore Bin Liners  
Loader Bucket Liners  
Hammers  
For Additional Mining Applications - See Page 2

Skid Plates  
Feeder Liners  
Screen Liners  
Crusher Liners  
Underground Miners  
Cheek Plates

### Pulp and Paper

Chain Flights  
Chipper Hoods  
Chip Feeders  
Debarker Arms  
Hammermill and Hog Parts  
Chain Ways  
Screw Conveyors

Fan Blades  
Transition Sections  
Bark Chutes  
Chain Rub Bars  
Flatbacks  
Flumes  
Jack Ladders