

Wearalloy Nickel Chrome Plate 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.	Boron
.18-.26	.50-.92	.015 max.	.003 max.	.60 max.	.85 max.	1.40-1.85	.20-.30	.001-.005

BHN Hardness	444 - 495 (1" - 2" = 415 - 495)
Yield	180,000 - 230,000 psi.
Tensile	216,000 - 240,000 psi.
Elongation in 2"	14%
Color Code	Gold

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

DRILLING AND MACHINING: Wearalloy Nickel Chrome Plate 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 Plate 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.

Charpy V-Notch Data		Energy Absorbed - Ft. Lbs.			
Plate Thickness	BHN	Longitudinal		Transverse	
		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", 1", 1-1/2", 2"
Widths: 48", 96" **Lengths:** 120", 240", 288"



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