

Ultima 501™

500 BHN Abrasion Resistant, Alloy Wear Plate

Ultima 501 is furnished at a maximum hardness to resist severe abrasion and moderate impact. This is a “true” formable product. **Ultima 501** is quench and tempered to provide excellent service in severe applications. Unlike other wear plates that harden while in service, **Ultima 501** is delivered at a full and deep hardness range at 475 to 535BHN.

Ultima 501 is manufactured to modern steel making technology which incorporates; inclusion shape control, grain refinement, small batch thermal treatment, and low levels of sulfur and phosphorus.



(Past Protected Trade Name of Ludlow Steel Company – Max Wear™ 500BHN)

Typical Physical Properties*

Brinell Hardness	475/535 BHN
Tensile Strength	255,000 P.S.I.
Yield Strength	200,000 P.S.I.
Elongation	15%
Reduction of Area	41%
Carbon Equivalency.....	.54
Grain Type.....	Temp. Martensite

*Modified analysis for maximum hardness and formability

Advantages

- Quench and Tempered
- Excellent Toughness
- Machinable
- Formable
- Self Polishing
- Fine Grain (7-8)
- Vacuum Degassed
- Inclusion Shape Control
- Low Phos. and Sulfur

For general **welding, forming and fabrication** information refer to page 32 in this technical data book.

Typical Applications

Chain Conveyors	Scrap Baler Plates	Coal Chutes
Bucket Liners	Truck Bed Bodies	Hoppers
Fan Blades	Wear Plates	Levelers
Mixer Blades	Wear Guides	Kiln Blades

Stock Sizes (Thickness)

1/4"	1/2"	1"	2"
3/8"	3/4"	1-1/2"	

Stock Sizes (Widths and Lengths)

48" x 96"	72" x 144"	96" x 144"
48" x 144"	72" x 288"	96" x 288"
48" x 288"		

Note: Wear plate products are designed for liner applications; they are not intended for use as self-supporting structures or lifting devices. Fabrication work on any wear plate products should only be accomplished by persons experienced in dealing with high hardness alloy materials.

Value-Added Services

Upon request, we provide a complete line of fabrication services for our materials, including shape cutting, hard facing, forming, fabricated assemblies, etc. Please contact our Cleveland offices with questions.