

ULTIMA™ 501

Modified Analysis, 500BHN Abrasion Resistant 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 heat treated to provide excellent service in severe applications. Unlike other wear plates that harden while in service, **Ultima 501** is delivered deep hardened to range of 475 to 535BHN.

Ultima 501 Plate 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™)

Typical Mechanical Properties

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

Typical Applications

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

Available Sizes

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

Available Widths & Lengths

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

Key Advantages

- Uniform Hardness
- Excellent Toughness
- Machinable
- Formable
- Self-Polishing
- Fine Grain (6 - 8)
- Vacuum Degassed
- Inclusion Shape Control
- Low Phosphorus
- Low Sulphur

For general **welding, forming and fabrication** information refer to page 28 in this technical data manual.

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 are available upon request, we provide a complete line of fabrication services for our materials, including, but not limited to: shape cutting, hard facing, forming, fabricated assemblies, etc. Please contact our Cleveland offices with questions.