

Supra HT™ 500 BHN Abrasion Resistant, Alloy Plate



Typical Physical Properties*

Hardness.....	470/535 BHN
Tensile Strength.....	240,000 P.S.I.
Yield Strength.....	190,000 P.S.I.
Elongation	12%
Reduction of Area.....	44%
Grain Structure.....	Tempered Martensite

Typical Chemical Analysis*

C	Mn	S	Ph	Si
.14/.30	1.00	.005	.015	.40
Ni	Cr	Mo	Cu	
1.00 Max	1.50 Max	.22/.65	.18	

*subject to variance based on producing mill and gauge. Made to clean steel production technology (low C.E.) for formability.

Available Sizes (Thickness)

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

Available Sizes (Widths and Lengths)

48" x 96"	72" x 144"	96" x 144"
48" x 144"	72" x 288"	96" x 240"
48" x 288"		96" x 288"

Supra HT is produced by controlled analysis, alloy enrichment, micro melt practice, and thermal conditioning. This is a special chemistry formable product produced to maximum hardness levels.

Supra HT is produced in small electric furnaces with ladle degassing and refining. Ladle refining desulfurizes, and metal slag stirring frees unwanted gases. Micro melt practice and alloy ribbon enrichment means ideal control of analysis and physical properties. Hi-Tech rolling procedures mean closer thickness tolerance, better plate density, and superior surface quality. All plates are descaled in the rolling and heat treating process.

Our 500 BHN plate chemistry differs from our Sheffield 400 BHN chemistry. **Supra HT 500 BHN** Wear Plate has been engineered to facilitate both welding and forming operations at an extremely high hardness level.

Welding and Welding Information..... see Page 51

The following is a list of field proven applications where **Supra HT 500 BHN** has performed extremely well, even under the toughest of conditions.

- Bottom Plates
- Liners
- Truck Beds
- Shovels
- Scrappers
- Blades
- Buckets
- Barrel Heads
- Flights
- Pangborn Liners
- Chain Return
- Hoppers
- Crusher Parts

CAUTION: As with all wear plate products, care must be taken when performing cold and hot work operations. Use qualified labor, experienced with the fabrication of hardened alloy wear plate materials. Wear appropriate protective gear. Call for forming, and or, welding information.

Past Protected Trade Name Of Pyramid Steel Company – Wear Guard™ 500