

## TRU TUF 500

### ULTRA HI-STRENGTH ALLOY WEAR PLATE

*Quenched and Tempered For Extreme Abrasion*

**TRU TUF 500** quenched and tempered, high alloy steel is intended specifically for applications requiring a high degree of abrasion and wear resistance.

Used by industries such as mining, forestry, quarrying, and construction. **TRU TUF 500** is the cost-effective choice for parts subjected to extremely high levels of wear.

### PHYSICAL PROPERTIES

Tensile Strength	<b>210,000 PSI</b>
Yield Strength	<b>180,000 PSI</b>
Elongation in 2"	<b>12 %</b>
Hardness	<b>48 – 53 Rockwell C</b>
Brinell Hardness	<b>455-525 BHN</b>

### CHEMICAL PROPERTIES

Carbon	<b>.31</b>	Chromium	<b>1.00</b>
Manganese	<b>1.50</b>	Nickel	<b>.70</b>
Silicon	<b>.55</b>	Boron	<b>.003</b>
Molybdenum	<b>.35</b>	Phosphorus	<b>.025</b>
Sulphur	<b>.015</b>		

### WELDING INSTRUCTIONS

**TRU TUF 500** has superior welding characteristics. No specific electrodes are needed - standard low-hydrogen, high-tensile rod is recommended for maximum strength. E100XX, E110XX, or E120XX, or E130XX is preferred.