



# WINCO-TUF 40

## Hi Strength Wear Plate

***Quenched and Tempered for  
Extreme Abrasion and Moderate Impact***

WINCO-TUF 40 has excellent toughness at high hardness and in heavy sections. For severe abrasion.

### Advantages

- Maximum resistance to abrasion and impact.
- Withstands the brittleness which develops at subnormal temperatures.
- Increased toughness and fatigue resistance compared to low carbon and 1045 plate.
- Retains high strength and wearability at high temperatures.
- High impact and wear properties retained at weld joints.

### Physical Properties

Tensile Strength . . . . .	<b>200,000 PSI</b>
Yield Strength . . . . .	<b>160,000 PSI</b>
Elongation in 2" . . . . .	<b>14.4%</b>
Reduction of Area . . . . .	<b>55%</b>
Hardness . . . . .	<b>40-46 Rockwell "C"</b>
Brinell . . . . .	<b>Min. 375-440</b>

### Typical Analysis

Carbon . . . . .	<b>.17/.25</b>
Chromium . . . . .	<b>.45/.60</b>
Manganese . . . . .	<b>1.50</b>
Nickel . . . . .	<b>.70/1.00</b>
Silicon . . . . .	<b>.50</b>
Copper . . . . .	<b>.15/.30</b>
Molybdenum . . . . .	<b>.20/.60</b>
Phosphorus . . . . .	<b>.025 max.</b>
Sulphur . . . . .	<b>.015 max.</b>