

# Amera-Braze<sup>®</sup> 520

## ABRASION RESISTANT ALLOY



Color Code:  
ORANGE  
& BLACK



Amera-Braze 520 is a heat treated, abrasion resistant alloy steel plate and strip. With a combination of excellent toughness and high hardness, a reduction of dead weight can be achieved by using Amera-Braze 520 in half the thickness of the original chute, liner, or wear area.

### Features And Advantages

- Ultra-high wear resistance
- Heat treated, quenched, and tempered to a high Brinell hardness
- Good weldability
- Depth hardened
- Fine grain structure
- High tensile strength
- Corrosion resistance six times greater than mild steel
- Reduces dead weight

### Typical Mechanical Properties

Tensile strength psi	245,000
Yield point psi	230,000
Elongation in 2"	9%
Reduction of area	40%
Brinell hardness	480–520

### Welding

Use low hydrogen high tensile electrodes: AWS specification E100XX, E110XX, or E120XX electrodes.

- Preheat to 300°–500°F on plates over 1/2" in thickness.

*Consult Ameralloy plant for welding and fabrication information.  
Special forming and fabrication procedures required.*

# Amera-Braze<sup>®</sup> 520

ABRASION RESISTANT ALLOY



## Applications

- Backup plates
- Baffle plates
- Bucket lips
- Car plates
- Chain links
- Chain slide runners
- Chutes:
  - Coal
  - Coke
  - Glass
  - Grain
  - Gravel
  - Limestone
  - Ore
  - Refuse
  - Rock
- Classifier screens
- Coke bins
- Conveyor buckets
- Clam shell bucket lips
- Concrete pipe liners
- Deck plates
- Doors
- Dredge pump liners
- Drag line buckets
- Dipper sticks
- Dump truck beds
- Eye bars
- Fan blades & housings
- Flotation plates
- Flume liners
- Furnace liners
- Hoppers
- Launder plates
- Loaders
- Log-washer paddles
- Muller bottoms
- Mixers
- Oscillator Liners
- Ore car bodies & liners
- Ore pocket liners
- Pressure plates
- Scrap baler liners
- Shakeout liners
- Skip cars and liners
- Sluice plates
- Transfer car liners
- Truck box liners
- Vibrators
- Wear bars
- Wear plates
- Wearing strips
- Wheelabrator end plates

## Available Sizes

### Amera-Braze 520 Plates

Thickness: 1/4" 3/8" 1/2" 5/8" 3/4" 1" 1-1/4" 1-1/2" 1-3/4" 2" 2-1/2" 3"

Thicknesses over 3" upon request

Widths: 48" 60" 72" 84" 96" or burned to your specifications

Lengths: 96" 120" 144" 240" 288" or burned to your specifications

### Amera-Braze 520 Wear Strips

Thickness: 1/4" 3/8" 1/2" 5/8" 3/4" 1" 1-1/4" 1-1/2" 1-3/4" 2"

Thicknesses over 2" burned to your specifications

Widths: Burned to your specifications

Lengths: Maximum of 24'