



TEXAS \* PENNSYLVANIA \* NORTH CAROLINA  
<http://hi-alloy.com>

## HI-ALLOY SUPER HARD

### THE ULTIMATE IN WEAR PROTECTION

**DESCRIPTION:** Hi-Alloy Super Hard deposits are alloy rich containing a complex carbide mixture of chromium, molybdenum, niobium, vanadium, manganese, and tungsten. These elements combine to offer excellent hardness retention up to 1600° F, and the ultimate in abrasion resistance. For use on all iron based metals subject to severe fine particle erosion, these deposits exhibit wear properties superior to standard tungsten carbide deposits.

**TYPICAL APPLICATIONS:** Sinter handling equipment, cement handling equipment, earth moving equipment, coal handling equipment, ore processing equipment, crushers, grates, and conveyors.

**PROCEDURES:** Remove all foreign material from the weld area, rebuild severely worn areas with Hi-Alloy Hardbase 30, select a lower amperage range, and maintain a medium arc gap, for the best bead profile weld using a 3 X weave, minimal slag may be welded over, maximum of two passes; cross crack stress relief is normal.

**AVAILABLE SIZES:**                      1/8                      5/32

**AMPERAGE RANGES:**              105 - 135      130 - 170

**POLARITY:**                              DC Reverse, DC Straight, or AC

**HARDNESS:**                              Up to Rockwell C 68