



# 305

MAGNA 305 Super-Tough Alloy for High-Strength Steels



## Super-Tough Alloy for High-Strength Steels

- *Engineered specially for welding high-strength low-alloy steels.*
- *Outstanding mechanical properties.*
- *Superior crack resistance – even without preheating.*

**TRUST  
MAGNA  
FOR** *Ease of Application  
Wide Versatility  
Outstanding Physical  
Properties*



## SPECIAL FEATURES

### Magna 305 Super-Tough Alloy for High-Strength Steels

enables you to weld higher tensile strength steels faster than ever before.

- **Magna 305** is quality engineered specially for outstanding results even on the most difficult-to-weld steels, including high-strength low-alloy steels.
- **Magna 305** offers superb mechanical properties.
- **Magna 305** provides superior crack resistance – even without preheating.

## OUTSTANDING PROPERTIES

### Magna 305 is the super-tough alloy for high-strength steels that:

- Provides 116,000 p.s.i. (81.6 kg/mm<sup>2</sup>) tensile strength – 102,000 p.s.i. (71.7 kg/mm<sup>2</sup>) yield strength.
- Has self-annealing quality to eliminate under-bead cracking, fissures and defects.
- Gives extremely fast deposition rate – eliminates need to chip slag between passes.
- Is fully machinable – machines like free-machining steel.

## USE FOR

**Magna 305 (for AC & DC)** is the right choice for welding low-alloy high-tensile construction steels. **Magna 305** also has superior welding properties when welding:

T-1 Steel	USS Con-Pac M	Van-80	N-A-XTRA 100
T-1 Type A	Jalloy S-90	HY-80	N-A-XTRA 110
Armco SSS-100	Jalloy S-100	Jalloy S-110	Jalloy AR-360
Armco SSS-100A	HY-90	SKF327	Carbon Manganese

**Magna 305** gives great results on problem steel such as:

Painted Steel Rusty Steel Oily Steel Sulfur-Bearing Steel  
"Tramp" Steel Free-Machining Steel Cold Rolled Steel



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