



506



“NextGen” Hi-Strength Aluminum TIG Filler Metal

MAGNA 506 “NextGen” Hi-Strength Aluminum TIG Filler Metal

- Superior Fluidity for Ease of Application
- High Tensile & Shear Strengths
- Fully Post Weld Heat Treatable
- Low Hot Crack Sensitivity
- Excellent Corrosion Resistance
- Perfect Color-Match with Aluminum Alloys
- Excellent for Maintenance Welding of Most Commonly Used Aluminum Alloys

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



SPECIAL FEATURES

MAGNA 506 is an advanced “welder-friendly” high strength aluminum TIG Filler Metal quality designed for applications in general repair and maintenance of most aluminum alloys:

- **MAGNA 506** is formulated with special package of chemicals that offer superb fluidity at low melting points. It can be applied in horizontal, vertical, and overhead positions.
- **MAGNA 506** gives excellent tensile and shear strengths in as-welded condition. A three-pass fillet weld made with conventional aluminum filler can be substituted by a single-pass of **MAGNA 506**.
- **MAGNA 506** is fully post-weld heat-treatable. It does not rely upon base metal dilution to increase the strength. With proper heat treatment and ageing, the weld metal strength of Magna 506 can be increased by up to 40%.

OUTSTANDING PROPERTIES

In addition to the high strength (in as-welded condition and after post weld heat treatment), **MAGNA 506** exhibits excellent physical and mechanical properties include:

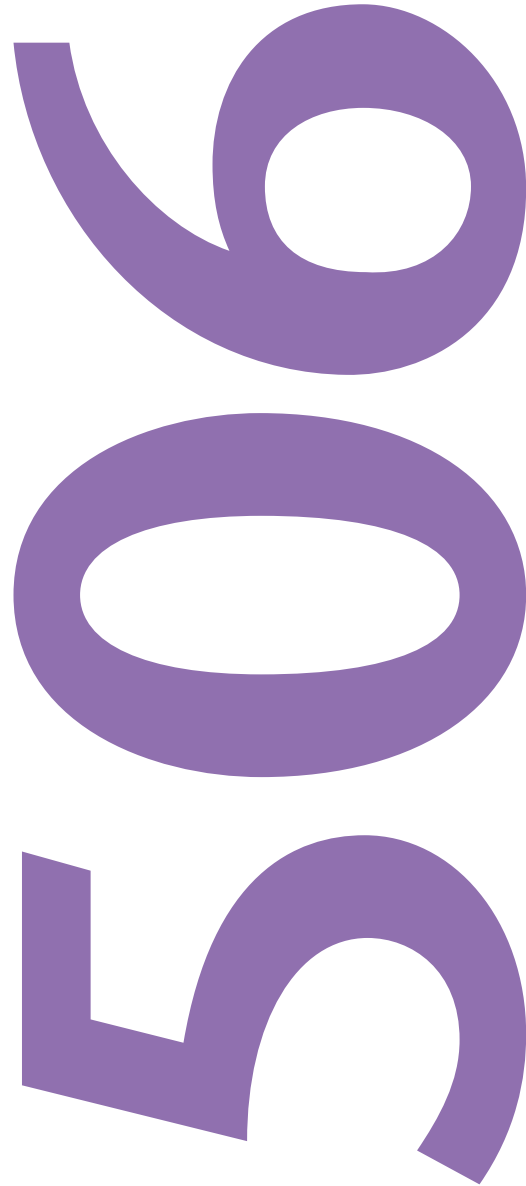
- Excellent corrosion resistance.
- Low hot cracking sensitivity and shrinkage rate.
- Low welding smut and discoloration.
- Perfect color-match with aluminum alloys even after anodizing.

USE FOR

MAGNA 506 is quality designed for maintenance welding most commonly used aluminum alloys (1xxx, 3xxx, 4xxx, 5xxx with <2.5% magnesium, and 6xxx series aluminum alloys) and the combination of these aluminum alloys.

Use **MAGNA 506** for general repair and maintenance of (including aluminum alloy 356 castings):

- Automotive frames & body panels, aerospace hardware, chemical equipment, drive shafts, furniture, recreation equipment, pipeline, ship decks, storage tanks, wheels, etc.



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