



Hobart® MaxalMig®/MaxalTig® 4943

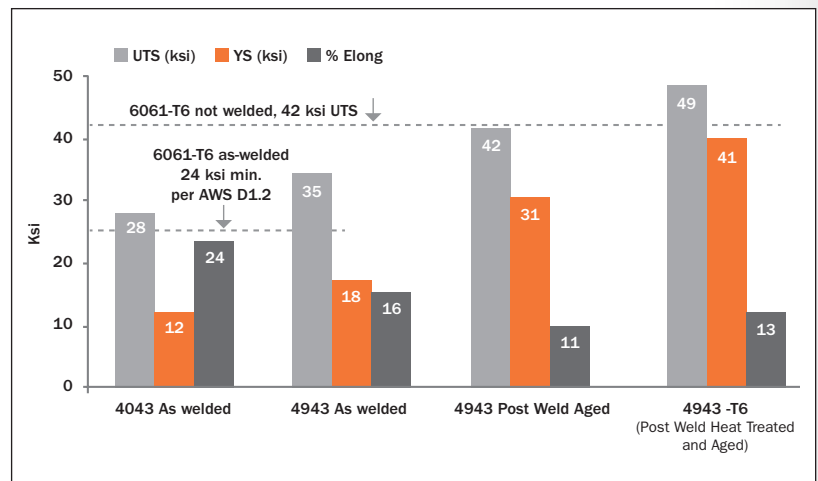
Features & Benefits

- All of the advantages of 4043 series aluminum alloys without the limitation of lower strength
- First new aluminum filler metal designed for welding wrought base metals registered with the Aluminum Association in 50 years
- 4943 is the ULTIMATE improvement/modification to the original 4043 aluminum alloy
- Produces 25% higher ultimate tensile and shear strengths in the as-welded condition
- 4943 can be used anywhere that 4043 is currently being used and offers a significant strength benefit.
- Uses the same voltage and WFS settings as 4043
- Can be used to join 1xxx, 3xxx, 5xxx with less than 3.0% Mg (example 5052) & 6xxx series base metals
- 4943 is heat treatable allowing for additional strength benefits on heat treatable base metals and exceeding strengths of similar heat treatable alloys. *(Cost competitive with standard alloys as opposed to other heat treatable alloys that demand a premium price)*

4043 and 4943 advantages – 4943 advantages

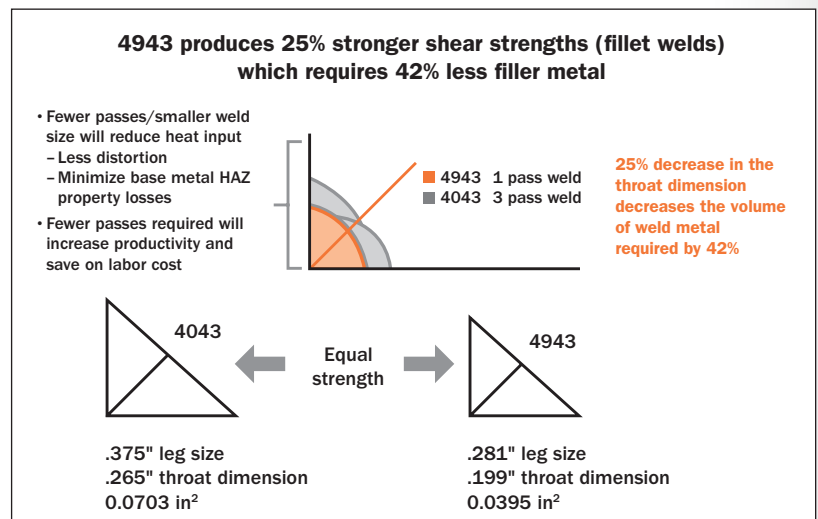
- High fluidity
- Low hot cracking sensitivity
- Low shrinkage rate
- Low melting temperature
- Excellent corrosion characteristics
- Use in high temperature service
- Low welding fume and smut
- Higher tensile and shear strengths than 4043
- Heat treatable

Tensile Strength Comparison, 4043 vs. 4943 (All weld metal, MIG welded, no base metal dilution¹)



¹Insufficient dilution can be a concern with alloy 4043, which can result in low weld strength. Alloy 4943 eliminates the need for base metal dilution to achieve good weld strength in as-welded, post weld aged and T6 condition.

Strength vs. Size of 4043 vs. 4943



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