The Advantages of Hobart® FabCOR® Metal Cored Wire

Increased Deposition Rate
FabCOR wires offer a typical deposition rate improvement of 15 to 20% compared to optimized solid wire procedures. Use FabCOR’s increased deposition rates to increase welding travel speeds and/or reduce weld passes.

Decreased Heat Input
FabCOR wires provide a typical heat input reduction of 10 to 20% compared to optimized solid wire procedures. Use FabCOR’s decreased heat input to reduce distortion caused by excessive heat input, time spent performing post-weld part straightening, and reduce the risk of burn-through during welding.

Improved Gap Bridging
FabCOR wires are typically capable of bridging gaps 10 to 15% larger than solid wires using optimized procedures. Use FabCOR wire to reduce time spent performing post-weld rework and correcting minor fit-up issues.

Improved Penetration Profile
FabCOR wires offer a wider, shallower penetration profile compared to solid wire at similar welding parameters. Use FabCOR wire to help minimize risk of lack of fusion defects at joint sidewalls.

Improved Bead Contour
FabCOR wires typically produce weld beads with a flatter bead contour, especially when welding over mill scale.

Simplify Your Operation
FabCOR wires can help eliminate or minimize non-value-added arc-off activities such as:

- Pre-weld base metal preparation (ex. grinding)
- Pre-weld correction of joint fit-up (ex. clamping, re-tack, etc.)
- Post-weld weld bead cleaning
- Post-weld rework due to burn-through, distortion, or poor bead profile/contour

Top Left: Cross-section of a fillet weld made using solid wire at 300 amps
Top Right: Cross-section of a fillet weld made using FabCOR wire at 300 amps
Bottom Left: Cross-section of a fillet weld made using solid wire at 21 ipm over mill scale.
Bottom Right: Cross-section of a fillet weld made using FabCOR wire at 21 ipm over mill scale

<<< FabCOR Wires Reduce Weld Cost
The cost of Labor & Overhead is approximately 85% of typical weld cost. Make the most of it with FabCOR metal cored wires. Improve welding travel speeds and reduce weld cost by eliminating inefficiencies in pre-weld and post-weld activities. FabCOR wires have been shown to provide significant improvements in controlled laboratory experiments and numerous customer case-studies. Learn more about FabCOR metal cored wires by contacting Hobart’s Application Engineers by phone at 1-800-532-2618 or by e-mail at Applications.Engineering@HobartBrothers.com

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