

FCAG-SHELLA CORE



A baseline weld was made using automated welding equipment. Voltage, Wire Feed Speed, Travel Speed and Contact-Tip-to-Work Distance were then adjusted individually from baseline weld settings to illustrate how each parameter affects a fillet weld when raised and lowered. Icons in grey indicate the specific parameter adjusted; in the case of amperage, the icon represents the value measured.

Baseline Weld Variables

Wire Type: 0.052 E71T-1 (ExcelArc 71)

Shielding Gas: 75% Argon / 25% Carbon Dioxide

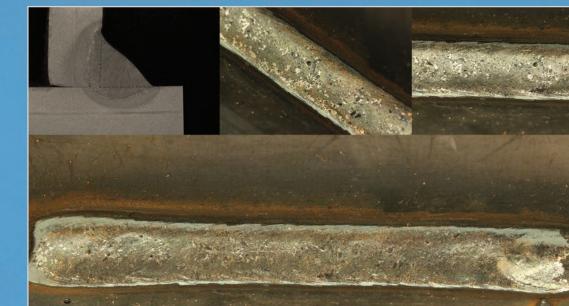
Base Metal: 1/4 in. Cold Rolled Carbon Steel **Transfer Mode:** FCAW/Spray

Travel Direction: Backhand (Drag)

Nozzle Diameter: 5/8 in.

275



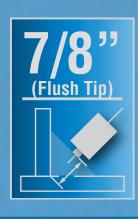


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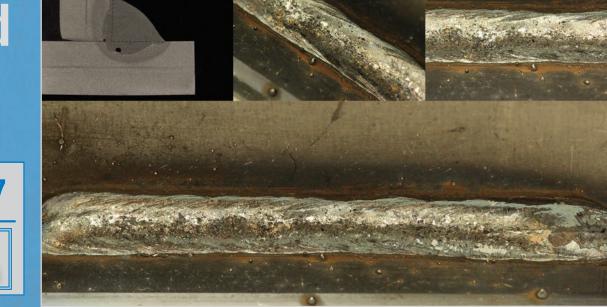


/oltage



24.1













Feed Speed Wire



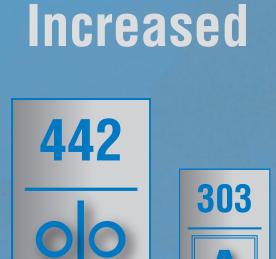
321









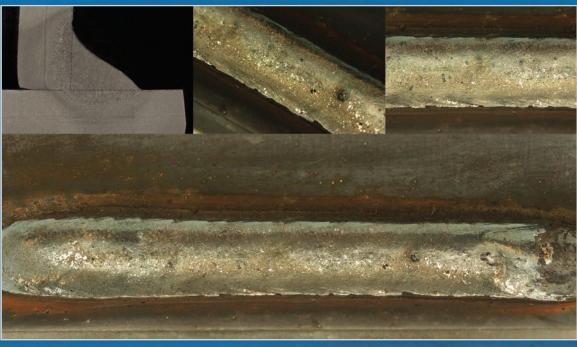


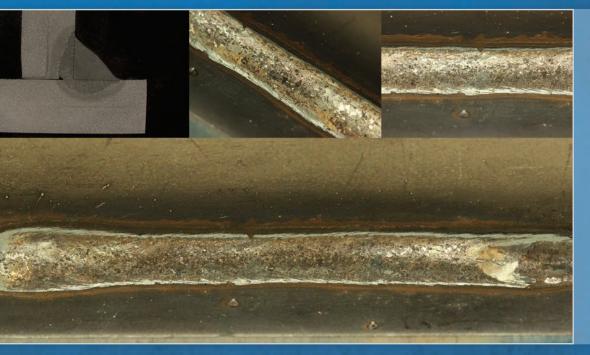
Travel Speed

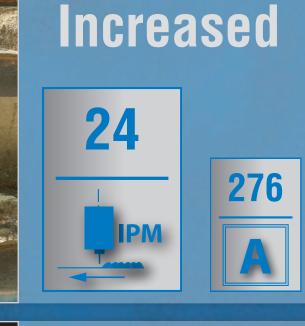
Decreased

16









Contact Tip To Work

Decreased

