

TALAR CAS WETAL ARC SPRAY TRANSFERI



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: 0.045 ER70S-6 (Quantum Arc 6)

Shielding Gas: 90% Argon / 10% Carbon Dioxide

Base Metal: 1/4 in. Cold Rolled Carbon Steel

16

Transfer Mode: Spray

Travel Direction: Forehand (Push)

45°

Nozzle Diameter: 5/8 in.

235



26.5



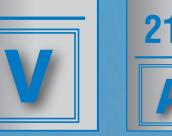


00

300

Decreased

22.5



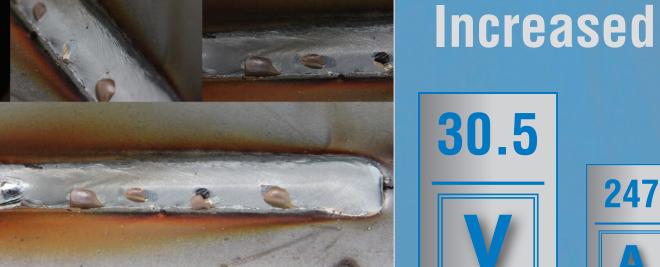




35

CFH P





Feed Speed Wire

/oltage

Decreased

250









Travel Speed

Decreased

12









Contact Tip To Work

Decreased

