AWS B2.1-1-232:2006 An American National Standard

Standard Welding Procedure Specification (SWPS) for

Argon Plus 25% Carbon
Dioxide Shielded Gas Metal
Arc Welding (Short Circuiting
Transfer Mode) followed by
Argon Plus 25% Carbon
Dioxide Shielded Flux Cored
Arc Welding of Carbon Steel
(M-1/P-1/S-1, Groups 1 and 2),
1/8 through 1-1/2 inch Thick,
ER70S-3 and E7XT-X,
As-Welded or PWHT
Condition, Primarily Pipe
Applications

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Standard Welding Procedure Specification (SWPS) for Argon Plus 25% Carbon Dioxide Shielded Gas Metal Arc Welding (Short Circuiting Transfer Mode) followed by Argon Plus 25% Carbon Dioxide Shielded Flux Cored Arc Welding of Carbon Steel (M-1/P-1/S-1, Groups 1 and 2), 1/8 through 1-1/2 inch Thick, ER70S-3 and E7XT-X, As-Welded or PWHT Condition, Primarily Pipe Applications

Prepared by the American Welding Society (AWS) B2 Committee on Welding Procedure and Performance Qualification

Under the Direction of the AWS Technical Activities Committee

Approved by the AWS Board of Directors

Abstract

This standard contains the essential welding variables for carbon steel in the thickness range of 1/8 through 1-1/2 inch, using gas metal arc welding (short circuiting transfer mode) with Argon plus 25% Carbon Dioxide shielding for the root followed by flux cored arc welding (globular transfer mode) with Argon plus 25% Carbon Dioxide shielding for the balance. It cites the base metals and operating conditions necessary to make the weldment, the filler metal specifications, and the allowable joint designs for groove welds. This WPS was developed primarily for pipe application.

