Fleetweld[®] 5P+

AWS E6010 • Mild Steel, Cellulosic

Conformances

AWS A5.1/A5.1M: 2004 E6010 ASME SFA-A5.1: E6010 ABS: E6010 CWB/CSA W48-06: E4310

TUV: EN ISO 2560-A: E 42 3 C25

Welding Positions

ΑII

Key Features

- High operator appeal and control
- ▶ Easy slag removal
- ▶ Standard in the pipe welding industry

Typical Applications

- Cross country and in-plant pipe welding
- ▶ Steel with moderate surface contaminants
- Repair welding

DIAMETERS / PACKAGING

Diameter	Length	10 lb (4.5 kg) Easy Open Can	50 lb (22.7kg)
in (mm)	in (mm)	30 lb (13.6 kg) Master Carton	Easy Open Can
3/32 (2.4)	12 (300)	ED032564	ED010283
1/8 (3.2)	14 (350)	ED032565	ED010278
5/32 (4.0)	14 (350)	ED032566	ED010285
3/16 (4.8)	14 (350)		ED010281

MECHANICAL PROPERTIES(1) – As Required per AWS A5.1/A5.1M: 2004

	Yield Strength ⁽²⁾ MPa (ksi)	Tensile Strength MPa (ksi)	Elongation %	Charpy V-Notch J (ft•lbf) @-29°C (-20°F)
Requirements - AWS E6010	330 (48) min.	430 (60) min.	22 min.	27 (20) min.
Typical Results(3) - As-Welded	415-500 (60-73)	500-610 (73-88)	22-29	51-93 (38-69)

DEPOSIT COMPOSITION⁽¹⁾ – As Required per AWS A5.1/A5.1M: 2004

	%С	%Mn	%Si	%P	%S
Requirements - AWS E6010	0.20 max.	1.20 max.	1.00 max.	Not Specified	Not Specified
Typical Results ⁽³⁾ - As-Welded	0.09-0.20	0.46-0.79	0.10-0.32	0.005-0.017	0.004-0.014
	%Ni	%Cr	%Mo	% V	
Requirements - AWS E6010	0.30 max.	0.20 max.	0.30 max.	0.08 max.	
				≤ 0.01	

TYPICAL OPERATING PROCEDURES

	Current (Amps)				
Polarity ⁽⁴⁾	3/32 in (2.4 mm)	1/8 in (3.2 mm)	5/32 in (4.0 mm)	3/16 in (4.8 mm)	
DC+	50-85	75-135	100-175	140-225	
DC-	50-85	75-135	100-175	_	

⁽¹⁾Typical all weld metal. (2)Measured with 0.2% offset. (3)See test results disclaimer below. (4)Preferred polarity is listed first.

Material Safety Data Sheets (MSDS) and Certificates of Conformance are available on our website at www.lincolnelectric.com

TEST RESULTS

Test results for mechanical properties, deposit or electrode composition and diffusible hydrogen levels were obtained from a weld produced and tested according to prescribed standards, and should not be assumed to be the expected results in a particular application or weldment. Actual results will vary depending on many factors, including, but not limited to, weld procedure, plate chemistry and temperature, weldment design and fabrication methods. Users are cautioned to confirm by qualification testing, or other appropriate means, the suitability of any welding consumable and procedure before use in the intended application.

CUSTOMER ASSISTANCE POLICY

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