

CHROMET™ 9

Low Alloy Steel ■ AWS E8015-B8 H4

KEY FEATURES

- Designed for corrosion resistance in elevated temperatures up to 600°C (1112°F)
- Moisture resistant coating provides low amounts of weld metal hydrogen levels for a superior weld
- Smooth arc performance in all positions

WELDING POSITIONS

All, except vertical down

CONFORMANCES

AWS 5.5	E8015-B8 H4
BS EN ISO 3580-A	E CrMo9 B 3 2 H5
BS EN ISO 3580-B	E 6216-9C1M

TYPICAL APPLICATIONS

- Oil Refineries
- Power Plants
- Piping
- Pressure Vessels
- Heat Exchangers

DIAMETERS / PACKAGING

Diameter mm (in)	Length mm (in)	11.7 kg (26 lb) Carton	13.5 kg (30 lb) Carton	17.4 kg (38 lb) Carton	16.5 kg (36 lb) Carton
2.5 (3/32)	350 (13.78)	CHROMET9-25	CHROMET9-32	CHROMET9-40	CHROMET9-50
3.2 (1/8)	380 (14.96)				
4.0 (5/32)	450 (17.72)				
5.0 (3/16)	450 (17.72)				

MECHANICAL PROPERTIES⁽¹⁾ – As Required per AWS A5.5

	Yield Strength ⁽²⁾ MPa (ksi)	Tensile Strength MPa (ksi)	Elongation %	Charpy V-Notch J (ft-lbf)		Hardness HV
				@20 °C (68 °F)	@-10 °C (14 °F)	
Requirements AWS E8015-B8 H4	460 (67) min	590 (86) min	19 min	34 min	-	-
Typical Performance⁽³⁾ After 2 hours of PWHT at 720 °C (1330 °F)	600 (87)	710 (103)	22	90	25	235

DEPOSIT COMPOSITION⁽¹⁾ – As Required per AWS A5.5

	%C	%Mn	%Si	%S	%P
Requirements AWS E8015-B8 H4	0.05-0.10	0.50-1.0	0.60 max	0.025 max	0.025 max
Typical Performance⁽³⁾	0.06	0.75	0.35	0.012	0.015
	%Cr	%Ni	%Mo	%Cu	
Requirements AWS E8015-B8 H4	8.0-10.0	0.40 max	0.90-1.20	0.3 max	
Typical Performance⁽³⁾	9	0.2	1	<0.05	

TYPICAL OPERATING PROCEDURES

Polarity ⁽⁴⁾	2.5 mm (3/32 in)	3.2 mm (1/8 in)	4.0 mm (5/32 in)	5.0 mm (3/16 in)
DC+	70-110	80-140	100-180	140-240

⁽¹⁾ Typical all weld metal ⁽²⁾ Measured with 0.2% offset ⁽³⁾ See test results disclaimer ⁽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

The Lincoln Electric Company is manufacturing and selling high quality welding equipment, consumables, and cutting equipment. Our challenge is to meet the needs of our customers and to exceed their expectations. On occasion, purchasers may ask Lincoln Electric for information or advice about their use of our products. Our employees respond to inquiries to the best of their ability based on information provided to them by the customers and the knowledge they may have concerning the application. Our employees, however, are not in a position to verify the information provided or to evaluate the engineering requirements for the particular weldment. Accordingly, Lincoln Electric does not warrant or guarantee or assume any liability with respect to such information or advice. Moreover, the provision of such information or advice does not create, expand, or alter any warranty on our products. Any express or implied warranty that might arise from the information or advice, including any implied warranty of merchantability or any warranty of fitness for any customers' particular purpose is specifically disclaimed.

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