

## **Unibraze 410-16**

CLASSIFICATIONS: AWS A5.4/ASME SFA 5.4 Class E410-16 UNS W41010

**DESCRIPTION: Unibraze 410-16** is an air hardened 12% Cr steel electrode for welding alloys of similar composition. It is used for surfacing of carbon steels to resist corrosion, erosion or abrasion. Preheat and interpass temperature of not less than 400°F during welding and requires post-weld treatment to obtain required ductility. It has a smooth running arc that results in a uniform bead that is flat to slightly convex.

## **Typical Chemistry:**

	С	Cr	Ni	Мо	Mn	Si	Р	S	Cu
AWS/	.12	11.0 -	.70	.75	1.0	.90	.04	.03	.75
ASME	max	13.5	max	mas	max	max	max	max	max
Typical (As welded)	.08	12.0	.20	.01	.70	.40	.02	.01	.06

## **Typical Mechanical Properties**

Tensile Strength	92,500 psi
Yield Strength	78,000 psi
Elongation	21 %

## **Typical Welding Parameters**

Dia.	Amps Flat	Amps Vertical and Overhead
3/32"	70-90	60-85
1/8"	85-110	80-90
5/32"	110-140	100-120
3/16"	120-160	110-130

Notice: The results reported are based upon testing of the product under controlled laboratory conditions in accordance with American Welding Society Standards. Actual use of the product may produce different results due to varying conditions. An example of such conditions would be electrode size, plate chemistry, environment, weldment design, fabrication methods, welding procedure and service requirements. Thus the results are not guarantees for use in the field. The manufacturer disclaims any warranty of merchantability or fitness for any particular purpose with respect to its products.

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