

CLASSIFICATIONS: AWS A5.14/ASME SFA 5.14 Class ERNiCrMo-3 UNS N06625

DESCRIPTION: Unibraze 625 is a low iron (less than 1%) NiCrMo alloy used for GTAW, GMAW and SAW welding of alloys 625, 825, 25-6Mo, as well as high alloy and super austenitic stainless steels, 9% Ni steels and various corrosion resistant alloys. Unibraze 625 provides excellent resistance to stress corrosion cracking, pitting and crevice corrosion.

TYPICAL CHEMISTRY:

С	Cr	Ni	Мо	Mn	Si	P	S	Fe	Cu	Nb + Ta	Al	Ti	Others
.10	20.0-	58	8.0-	.50	.50	.02	.015	1.0	.50	3.15-	.40	.40	.50
max	23.0	min	10.0	max	max	max	max	max	max	4.15	max	max	max

TYPICAL MECHANICAL PROPERTIES:

Tensile Strength	114,500 psi (790 MPa)			
Yield Strength	85,000 psi (590 MPa)			
Elongation	27%			

TYPICAL WELDING PARAMETERS:

	Diameter	Voltage	Amperage	Shielding Gas	
	.035" (.9mm)	26-29	150/190		
MIG	.045" (1.14mm)	28-32	180/220	75% Ar/25% He	
''''	.062" (1.6mm)	29-33 200/250		737071172370116	
	.035" (.9mm)	12-15	60-90		
	.045" (1.14mm)	13-16	80-110		
TIG	1/16" (1.6mm)	14-18	90-130	100% Ar	
	3/32" (2.4mm)	15-20	120-175		
	1/8" (3.2mm)	15-20	150-220		
	3/32" (2.4mm)	28-30	275-350		
SAW	1/8" (3.2mm)	29-32	350-450	Suitable Flux	
	5/32" (4.0mm)	30-33	400-550		

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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