

GEN 308 Welding Wire and Rod

GEN 308 is used for welding a wide variety of unstabilized stainless steels such as type 301, 302, 304, 305 and 308. GEN 308 meets chemical requirements of both ER308 and ER308H. The higher carbon content, between .04% and .08%, in ER308H provide higher tensile and creep strength at elevated temperature.

CONFORMANCES

AWS A5.9/A5.9M : ER308, ER308H ASME SFA-A5.9 : ER308, ER308H

UNS : \$30880

AWS CHEMICAL COMPOSITION (TYPICAL)

%C	%Cr	%Ni	%Mo	%Mn
0.04 - 0.08	19.5 – 22.0	9.0 – 11.0	0.50 max	1.0 – 2.5
0.05	20.1	9.7	0.08	1.8

%Si	%P	%S	%Cu	
0.30 - 0.65	0.03 max	0.03 max	0.75 max	
0.43	0.02	0.01	0.11	

TYPICAL WELD METAL MECHANICAL PROPERTIES

Tensile Strength : 90,000 psi 620 MPa Yield Strength : 61,000 psi 420 MPa

Elongation : 38 %

TYPICAL WELDING PARAMETERS

Process	Diar	neter	Voltage	Amperage	Gas/Flux
	1/16"	1.6 mm	14 – 18	80 – 150	100% Ar
TIG (GTAW)	3/32"	2.4 mm	15 – 20	150 – 250	100% Ar
	1/8"	3.2 mm	16 – 20	200 – 375	100% Ar
	.035"	0.9 mm	29 - 33	160 - 180	
MIG (GMAW)	.045"	1.1 mm	29 – 33	180 - 220	
WIIG (GWAW)	.063"	1.6 mm	29 – 33	210 - 250	98%Ar – 2%O ₂
	.093"	2.4 mm	29 – 32	300 – 350	
Sub Arc (SAW)	.125"	3.2 mm	29 – 32	400 – 550	_
	.156"	4.0 mm	29 - 32	500 - 650	

^{*}All parameters are suggested as basic guidelines only and will vary depending on joint design, number of passes and other factors.

IMPORTANT: SPECIAL VENTILATION AND/OR EXHAUST REQUIRED
BEFORE USE, READ AND UNDERSTAND THE SAFETY DATA SHEET (SDS) FOR THIS PRODUCT AND SPECIFIC INFORMATION PRINTED ON
THE PRODUCT CONTAINER.

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