

GEN 276 Welding Wire and Rod

GEN 276 is used for welding nickel-chromium-molybdenum to itself, stainless, carbon and low alloy steels. It may also be used for cladding of low alloy or carbon steel to provide general corrosion resistance. GEN 276 provides excellent resistance to both oxidizing and reducing atmosphere.

CONFORMANCES

AWS A5.14	:	ERNiCrMo-4
ASME SFA-5.14	:	ERNiCrMo-4
UNS	:	N10276

AWS CHEMICAL COMPOSITION (TYPICAL)

%C	%Cr	%Ni	%Mo	%W	%Fe	%Mn
0.02 max 0.005	14.5 – 16.5 15.8	rem. 58.3	15.0 – 17.0 15.9	3.0 – 4.5 3.5	4.0 – 7.0 5.7	1.0 max 0.5
%Si	%P	%S	%Cu	%Co	%V	Total Others
0.08 max 0.05	0.04 max 0.005	0.03 max 0.001	0.50 max 0.1	2.5 max 0.2	0.35 max 0.03	0.50 max

TYPICAL WELD METAL MECHANICAL PROPERTIES

Tensile Strength	:	105,000 psi	724 MPa
Yield Strength	:	80,000 psi	551 MPa
Elongation	:	36 %	

TYPICAL WELDING PARAMETERS*

Process	Diameter		Voltage	Amperage	Gas/Flux
TIG (GTAW)	1/16"	1.6 mm	14 – 18	90 – 130	100% Ar
	3/32"	2.4 mm	15 – 20	120 – 175	100% Ar
	1/8"	3.2 mm	15 – 20	150 – 220	100% Ar
MIG (GMAW)	.035"	0.9 mm	26 – 29	150 – 200	75% Ar – 25% He
	.045"	1.1 mm	28 – 32	180 – 220	75% Ar – 25% He
Sub Arc (SAW)	.093"	2.4 mm	28 – 31	300 – 350	
	.125"	3.2 mm	29 – 33	300 – 350	

*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.
--

The contents of this document are presented for informational purposes only and while every effort has been made to ensure their accuracy, they are not to be construed as guarantees, express or implied, regarding the products or services described herein or their use or applicability. The user must fully evaluate every process and application in all aspects.