

Typical Mechanical Properties

	Oil Quenched @1600°F (871°C) Tempered @1150°F (621°C)	Oil Quenched @1600°F (871°C) Tempered @950°F (510°C)
Yield Strength, psi (MPa)	121,000 (834)	152,000 (1048)
Tensile Strength, psi (MPa)	138,000 (951)	163,000 (1124)
% Elongation in 2" (51 mm)	18	16
% Reduction of Area	32	36

Typical Undiluted Weld Metal Analysis (%)

C	Mn	Si	P	S	Cr	Ni	Mo
0.20	1.25	0.40	0.013	0.015	0.50	1.30	0.20

Preheat:

When heat treatable steels are welded with any ferritic electrode, including Atom Arc 4130, it is necessary that the weldments be preheated to 400-600°F (204-316°C), with the same temperature held at interpass, in order to prevent cracking.

Standard Diameters

3/32" (2.4 mm), 1/8" (3.2 mm), 5/32" (4.0 mm), 3/16" (4.8 mm), 1/4" (6.5 mm)

Packaged in Tear Strip Cans

Additional Atom Arc Electrodes listed on page 78