



## DW-308

**Classification: AWS A5.22 E308T0-1  
AWS A5.22 E308T0-4**

**All-Weld-Metal (100%CO<sub>2</sub>)**

### 1-1. Chemical Composition

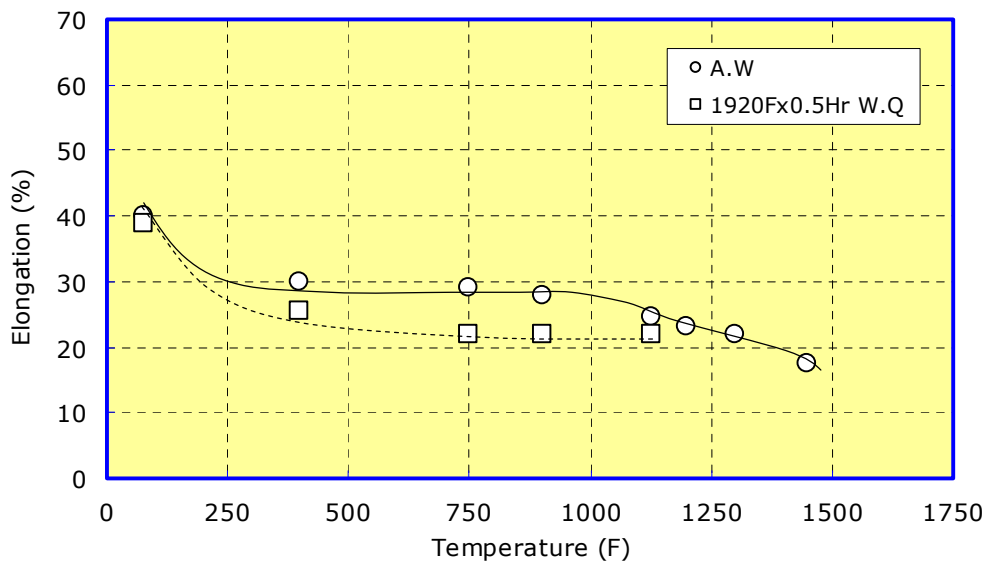
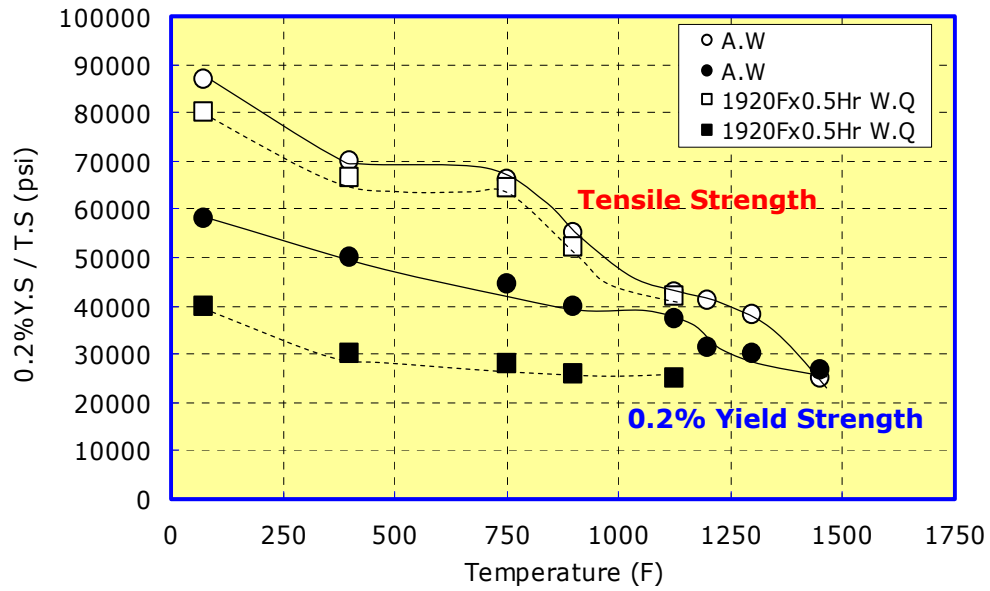
[Unit: mass%]

	C	Mn	Si	P	S	Ni	Cr	N
DW-308	0.06	1.51	0.45	0.018	0.011	9.62	20.07	0.015
E308T0-X	<0.08	0.5~2.5	<1.0	<0.04	<0.03	9.0~11.0	18.0~21.0	-----
	WRC <sub>-1992</sub> (FN)		Shaeffler Diagram (%)		Delong Diagram (FN)			
DW-308	9.5		7.9		11.4			
E308T0-X	-----		-----		-----			

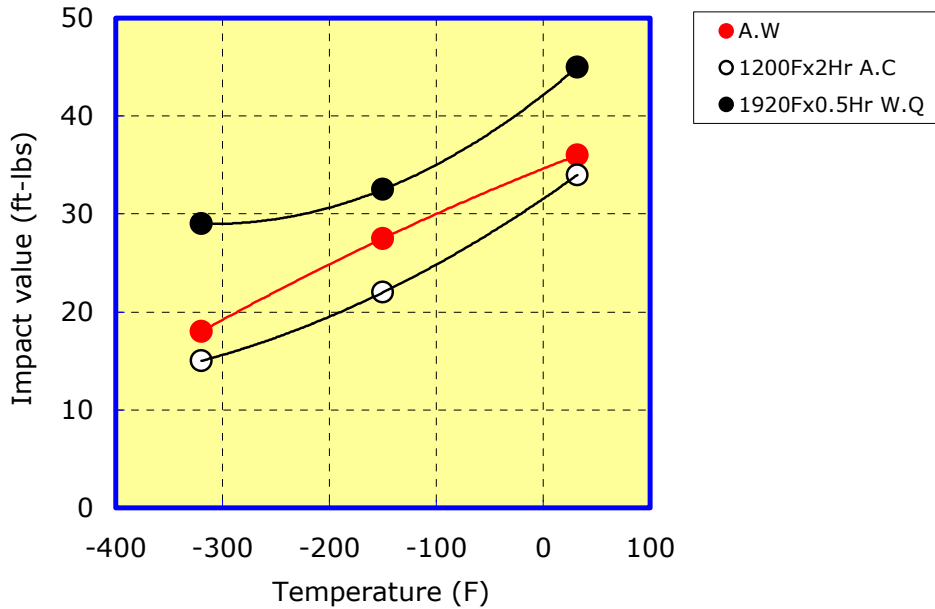
### 1-2. Tensile Test

	0.2% Proof stress (psi)	Tensile strength (psi)	Elongation (%)	Reduction of Area (%)
DW-308	56,806	86,729	40	44
E308T0-X	---	>80,000	>35	---

Note) Test was completed in the as welded condition and at room temperature



## 1-3. Impact Test



## 1-4. Corrosion Test

PWHT	Test results (IPM)			
	1 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	Ave.
As Welded	0.00066	0.00066	0.00082	0.00071
1200° F - 2hr *	0.00096	0.00104	0.00111	0.00104
1920° F - 0.5hr **	0.00048	0.00037	0.00043	0.00043

\* Air cooled

\*\* Water quenched

Huey Test (65% Nitric Acid Test)

Welding Journal, Oct. 1951 "Corrosion Data of Welding Low Carbon Stainless Steel"

Excellent < 0.0009 IPM

Good < 0.0009 - 0.0021 IPM

Fair < 0.0021 - 0.0042 IPM

Poor > 0.0042 IPM