


KOBELCO FCW Data Sheet 12
DW-316L
**Classification : AWS A5.22 E316LT0-1
 AWS AS.22 E316LT0-4**
All-Weld-Metal (100% CO₂)**12-1. Chemical Composition**

Unit : wt%

	C	Mn	Si	P	S	Ni	Cr	Mo	N
DW-316L	0.024	1.42	0.47	0.023	0.013	12.34	18.68	2.18	0.014
E316LTX-X	≤0.04	0.5/2.5	≤1.0	≤0.04	50.03	1 1/14	17/20	2/3	---

12-2. Ferrite Content

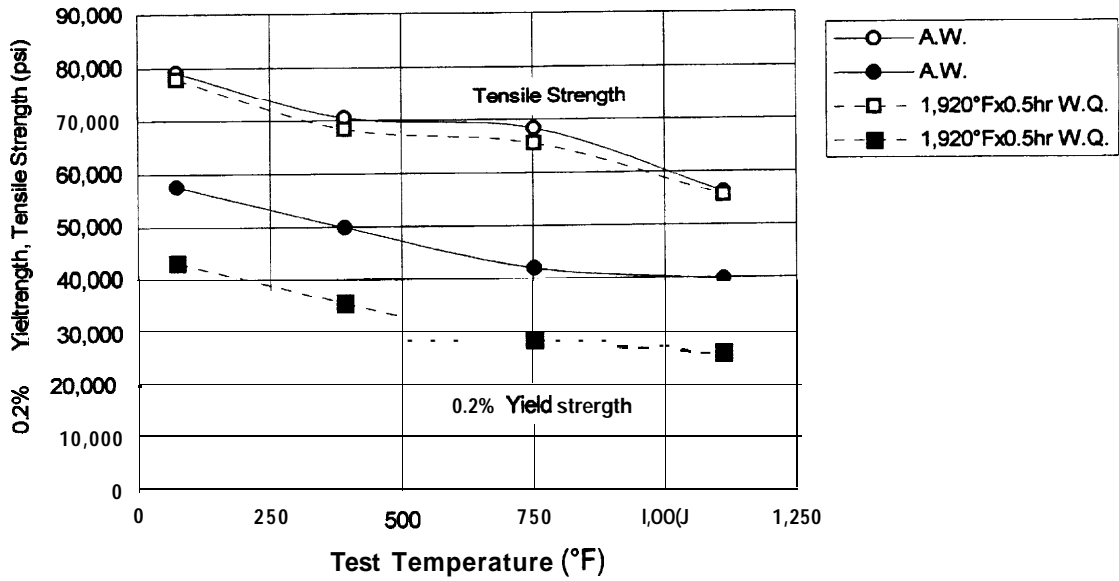
	Shaeffler Diagram (%)	Delong Diagram (FN)	1992-WRC Diagram (FN)
As Welded	5.6	9.2	7.1

12-3. Tensile Test

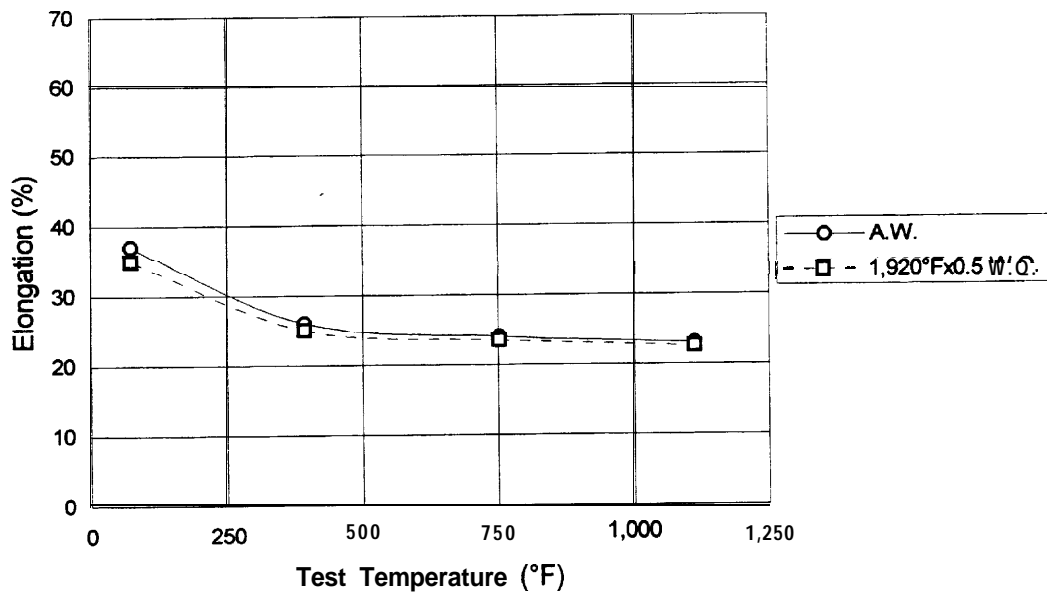
	0.2% Yield Strength (psi)	Tensile Strength (psi)	Elongation (%)	Reduction of Area (%)
DW-316L	57.521	81,800	37	36
E316LTX-X	---	≥70,000	≥30	---

Note: Test was completed in the as-welded condition at room temperature.

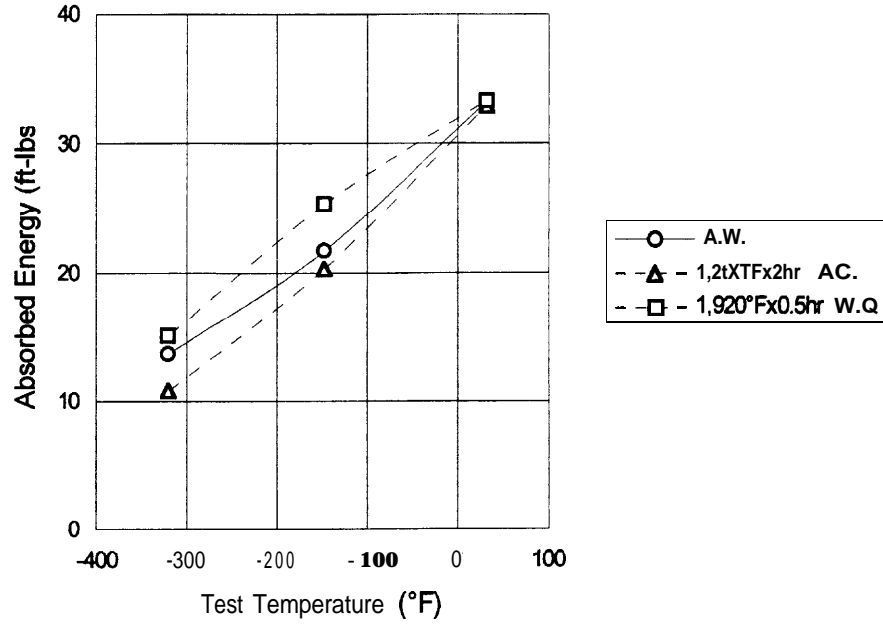
12-4. Tensile Strength and 0.2% Yield Strength



Elongation



12-5. Impact Test



12-6. Corrosion Test

5% Sulfuric Acid Test

	Test Results (g/m ² •hr)
As Welded	5.8
1.920°Fx0.5hr	5.6
AWSA5.4 D316L	6.0

Copper Sulfate Sulfuric Acid Test

PWHT : 1 ,200°F x 2hr

Bend Test Results : No Defect