



## DW-316LP

**Classification: AWS A5.22 E316LT1-1  
AWS A5.22 E316LT1-4**

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

### 1-1. Chemical Composition

[Unit: mass%]

|           | C                            | Mn      | Si                       | P     | S     | Ni                     | Cr        | Mo      | N     |
|-----------|------------------------------|---------|--------------------------|-------|-------|------------------------|-----------|---------|-------|
| DW-316LP  | 0.02                         | 1.38    | 0.59                     | 0.021 | 0.005 | 12.32                  | 18.55     | 2.64    | 0.039 |
| E316LT1-X | <0.04                        | 0.5~2.5 | <1.0                     | <0.04 | <0.03 | 11.0~14.0              | 17.0~20.0 | 2.0~3.0 | ----- |
|           | WRC <sub>-1992</sub><br>(FN) |         | Shaeffler Diagram<br>(%) |       |       | Delong Diagram<br>(FN) |           |         |       |
| DW-316LP  | 7.1                          |         | 7.2                      |       |       | 9.4                    |           |         |       |
| E316LT1-X | -----                        |         | -----                    |       |       | -----                  |           |         |       |

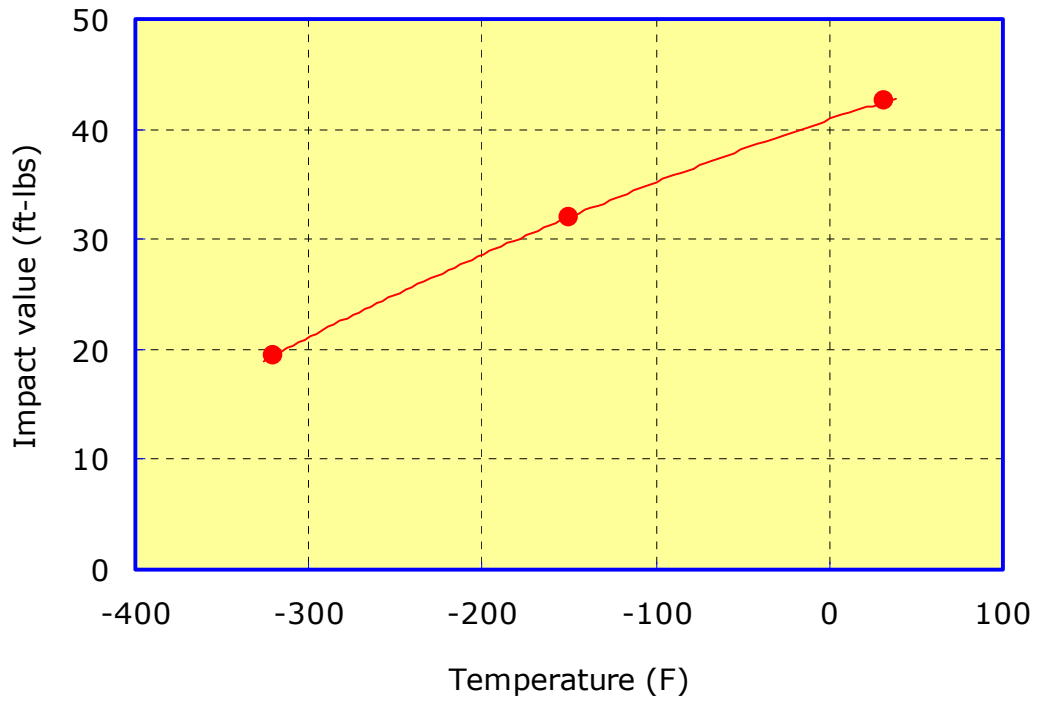
### 1-2. Tensile Test

|           | 0.2% Proof stress<br>(psi) | Tensile strength<br>(psi) | Elongation<br>(%) | Reduction of Area<br>(%) |
|-----------|----------------------------|---------------------------|-------------------|--------------------------|
| DW-316LP  | 60,172                     | 81,508                    | 36                | 44                       |
| E316LT1-X | ---                        | >70,000                   | >30               | ---                      |

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

**Kobelco Welding of America. Inc.**

## 1-3. Impact Test



WARNING: This product can expose you to chemicals including Nickel and Titanium Dioxide, which are known to the State of California to cause cancer, and Chromium, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warning.ca.gov](http://www.P65Warning.ca.gov).

**Kobelco Welding of America, Inc.**