



# CEWELD SA 317L

**TYPE** Stainless steel SAW welding wire with excellent corrosion properties against acid chloride containing environments.

**APPLICATIONS** For SAW welding stabilized and un-stabilized CrNiMo(N) type of steels with high corrosion resistance. Also suitable for dissimilar welds between steel and stainless steel or dissimilar stainless steels. 317L has good resistance to general corrosion and pitting due to its high content of molybdenum. The alloy is used in severe corrosion conditions such as in the petrochemical, pulp, cotton and paper industries.

**PROPERTIES** Austenitic, non magnetic stainless steel alloy with high mechanical properties and excellent weldability, corrosion resistance is better than AISI 316 due to the high Mo. content and also offers excellent corrosion resistance against dilute hot acids. Suitable for use up to 400°C. SA 317L is best to be used in combination with FL 838

**CLASSIFICATION**

|        |                      |
|--------|----------------------|
| AWS    | A 5.9: ER317L        |
| EN ISO | 14343-A: G 18 15 3 L |
| W.Nr.  | 1.4438               |
| F-nr   | 6                    |
| FM     | 5                    |

**SUITABLE FOR** Designed for joining corrosion resistant CrNiMoN steel as well as for austenitic-ferritic joints.  
**ISO 15608: 8.1 Austenitic ≤ 19 % Cr , TÜV 1000: Gr. 26, 27, 28**  
 1.4429, 1.4434, 1.4435, 1.4436, 1.4438, 1.4439, 1.4453, 1.4583,  
 X2CrNiMoN 17 13 5, X2CrNiMoN 17 13 3, X2CrNiMo 18 15 4, X10CrNiMoNb 18 12, X2CrNiMoN17-13-3, X2CrNiMoN18-12-4, X2CrNiMo18-14-3, X3CrNiMnMoN19-16  
 UNS S31600, S31653, S31703, S31726, S31753  
 AISI 316Cb, 316L, 316LN, 317L, 317LN, 317LMN

**APPROVALS** CE

**WELDING POSITIONS**

**TYPICAL CHEMICAL ANALYSIS OF THE FILLER METAL (%)**

| C    | Si   | Mn | P    | S    | Cr   | Ni | Mo  |
|------|------|----|------|------|------|----|-----|
| 0.02 | 0.55 | 2  | 0.02 | 0.01 | 19.5 | 14 | 3.5 |

**MECHANICAL PROPERTIES**

| Heat Treatment | R <sub>P0,2</sub> (MPa) | R <sub>m</sub> (MPa) | A <sub>5</sub> (%) | Impact Energy (J) ISO-V |  | Hardness |
|----------------|-------------------------|----------------------|--------------------|-------------------------|--|----------|
|                |                         |                      |                    | RT                      |  |          |
| As Welded      | 390                     | 530                  | 33                 | 70                      |  | HRc      |

**REDRYING** Not required

**GAS ACC. EN ISO 14175**



# CEWELD SA 317L

SA 317L 2,4MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| K-415     | 25      | 8720663415288 |

SA 317L 3,2MM

| Packaging | KG/unit | EanCode       |
|-----------|---------|---------------|
| K-415     | 25      | 8720663415318 |