Stick Electrode for Stainless Steel

| KC 2001 | AWS A 5.4 | E309L-16 | |
|------------------------------------|-----------|-------------|--|
| KS-309L | JIS Z3221 | ES309L-16 | |
| | EN 3581-A | E 22 12 L R | |
| Type of coating: Lime titania type | GB T 983 | E309L-16 | |

Classification

Applications and Features

- (1) Weld metal is low carbon with 24%Cr-13%Ni.
- (2) It provides excellent crack resistance due to low carbon and more ferrite.
- (3) It is suitable for welding low carbon stainless steel and low carbon cladding, AISI 309S, heat resistant steel (13Cr, 18Cr steel) or dissimilar metals.

Welding Position

All Positions

Welding Instruction

- (1) Please refer to Appendix H for re-drying instructions.
- (2) For welding dissimilar metals, please refer to Appendix I.
- (3) For other instructions and information, please refer to Appendix F.

Typical Chemical Composition of Weld Metal (wt. %)

| С | Si | Mn | Р | S | Cr | Ni |
|-------|------|------|-------|-------|-------|-------|
| 0.030 | 0.37 | 1.52 | 0.015 | 0.008 | 23.52 | 13.86 |

Typical Mechanical Properties of Weld Metal

| | Tensile Strength | Yield Strength | Elongation |
|---|--|--|------------|
| | N/mm ² (kgf/mm ²) | N/mm ² (kgf/mm ²) | % |
| Ī | 550(56.1) | 410(41.8) | 45 |

Size and Suggested Operating Range (AC or DC+)

| Diameter > | c Length (mm) | 2.0x250 | 2.6x300 | 3.2x350 | 4.0x350 | 5.0x350 |
|------------|---------------|---------|---------|---------|---------|---------|
| Amn | F/H-Fillet | 35~55 | 50~85 | 80~120 | 100~150 | 140~200 |
| Amp | V-up/OH | 30~50 | 45~85 | 70~110 | 90~135 | _ |