

OK Tigrod 316LSi

Bare corrosion resisting chromium-nickel-molybdenum rods for welding of austenitic stainless alloys of 18% Cr-8% Ni and 18% Cr-10% Ni-3% Mo types.

OK Tigrod 316LSi has a good general corrosion resistance, in particularly the alloy has very good resistance against corrosion in acid and chlorinated environments. The alloy has a low carbon content which makes it particularly recommended where there is a risk of intergranular corrosion. The higher silicon content improves the welding properties, such as wetting. The alloy is widely used in the chemical and food processing industries as well as in ship building and various types of architectural structures.

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| Classifications Wire Electrode | SFA/AWS A5.9 : ER316LSi EN ISO 14343-A : W 19 12 3 L Si Werkstoffnummer : ~1.4430 |
| Approvals | BV 316L BT CE EN 13479 DB 43.039.06 DNV-GL VL 316 L (I1) NAKS/HAKC 1.6-2.4 mm VdTUV 05336 |

Approvals are based on factory location. Please contact ESAB for more information.

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| Alloy Type | Austenitic (with approx. 8 % ferrite) 19% Cr - 12% Ni - 3% Mo - Low C- High Si |
| Shielding Gas | I1 (EN ISO 14175) |

Typical Charpy V-Notch Properties

| Testing Temperature | Impact Value |
|---------------------|-------------------|
| 20 °C (68 °F) | 175 J (129 ft-lb) |
| -110 °C (-166 °F) | 110 J (81 ft-lb) |
| -196 °C (-321 °F) | 90 J (66 ft-lb) |

Typical Weld Metal Analysis %

| C | Mn | Si | S | P | Ni | Cr | Mo | Cu |
|------|-----|-----|------|------|----|----|-----|-----|
| 0.01 | 1.8 | 0.8 | 0.01 | 0.02 | 12 | 18 | 2.8 | 0.1 |

Typical Wire Composition %

| C | Mn | Si | Ni | Cr | Mo | Cu |
|------|-----|-----|------|------|------|------|
| 0.01 | 1.8 | 0.9 | 12.2 | 18.4 | 2.60 | 0.12 |