

Supranox E 347

Brand Name & Classification

AWS/ASME SFA-5.4: E 347-16
DIN 8556: E 19 9 Nb R 23

Approvals Grade

Properties

Electrode for welding of stabilized austenitic stainless Cr-Ni steels or cast steels, as well as stainless or heat resisting Cr steels or cast steels. For operating temperatures of up to +400⁰ c. non scaling up to 800⁰c.

Application

1.4541: X 6 CrNiTi 18 10 1.4301: X 5 CrNi 18 10
1.4550: X 6CrNiNb 18 10 1.4303: X 5 CrNi 18 12
1.4552: G- X 5CrNiNb 18 9 1.4308: G-X 6 CrNi 18 9
1.4310: X 12 CrNi 17 7

Weld Metal Analysis Typical values

Carbon: 0.025

Silicon: 0.90

Manganese: 0.80

Chromium: 19.0

Nickel: 10.0

Niobium: 0.40

Typical Mechanical properties

| Yield Strength | Tensile Strength | Elongation | Impact Strength |
|----------------|------------------|------------|----------------------------|
| >420 N/MM2 | 540 - 620 N/mm2 | > 33 % | 60 J at +20 ⁰ c |

Welding Current & Positions



Current

| Dia | Length | Amperes |
|-----|--------|---------|
| 2.5 | 300 | 45-80 |
| 3.2 | 350 | 70-120 |
| 4.0 | 350 | 100-150 |