

## PRODUCT INFORMATION

### STAVINOX 312

AWS A5.4: E312 -16

#### DESCRIPTION

STAVINOX 312 is a rutile-type stainless steel MMA electrode exhibiting superior weldability and demonstrating excellent resistance to cracks, heat, and shocks. It has the highest tensile strength with notable elongation in its class, making it well suited to joining dissimilar and hard-to-weld steels.

#### WELDING POSITIONS



Suitable for AC and DC+ welding in all standard positions, offering a stable arc and strong performance under thermal and mechanical stress.

#### TYPICAL WELD METAL COMPOSITION

|    |           |    |           |
|----|-----------|----|-----------|
| C  | 0.15 Max  | Cr | 28.0-32.0 |
| Si | 1.00 Max  | Ni | 8.0-10.50 |
| Mn | 0.50-2.50 | Mo | 0.75 Max  |
| S  | 0.03 Max  | Cu | 0.75 Max  |
| P  | 0.04 Max  |    |           |

#### TYPICAL MECHANICAL PROPERTIES

|                  |                        |
|------------------|------------------------|
| Tensile Strength | >660 N/mm <sup>2</sup> |
| Elongation       | >22%                   |

#### MATERIAL TO BE WELDED

STAVINOX 312 is recommended for joining dissimilar and difficult-to-weld steels, including high-carbon, alloy, and hardenable steels, as well as buffer layering prior to hardfacing. Its high-strength, crack- and shock-resistant deposit makes it particularly suited to repair and maintenance welding of unknown or mixed base metals.

#### AVAILABLE FORMATS

|              |              |
|--------------|--------------|
| RC3122520-SV | 2.5mm 2kg VP |
| RC3123220-SV | 3.2mm 2kg VP |
| RC3124020-SV | 4.0mm 2kg VP |

For further information, contact Weldability-SIF on +44 1462 482200 or email [orders@weldability-sif.com](mailto:orders@weldability-sif.com)



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