

MAC STAIN E102S

Description & Applications:

Manual metal arc electrode manufactured on a pure nickel core wire with a chemically semi basic flux which contains both alloying elements and deoxodants. Metal recovery is 160% with respect to the core wire and is ideal for surface work. Designed to weld 25/20 Chromium Nickel heat resisting steels. Specifically designed for welding austenitic stainless heat resistant steels such as AISI Type 310 and Firth Vickers immaculate 5. The weld deposit provides good heat resistance up to 1400°C in air, and up to approximately 650°C in oxidising sulphurous atmospheres. The electrodes are also suitable for welding stainless to carbon or low alloy steels. Recommended for welding foundry heat treatment trays and bins, foundry thermocouple units and many furnace elements.

Related Specification:

AWS E310-16

Typical All Weld Metal Chemical Analysis %:

С	Mn	Si	Cr	Ni
0.08	2.39	0.68	26.5	20.64

■ Weld Metal Micro Structure:

Fully austenitic.

Typical All Weld Metal Mechanical Properties:

As Welded

Ultimate Tensile Strength 695 N/mm²
Elongation on 4d 35-40 %
Hardness 210 BHN

Current:

AC/DC (+).

Sizes Available and Recommended Amperages:

2.50mm 3.25mm 4.00mm 5.00mm 50-60 70-100 110-140 160-180

Storage:

If allowed to become damp the electrodes should be re-dried for one hour at 250°C before use.