

ES TIG 90S-B3

GTAW

ER90S-B3

ESWECO
The Art of Welding

Description

ES TIG 90S-B3 is a 2.5Cr-1.1Mo-alloyed (ER90S-B3), copper-coated rod for the GTAW of creep-resistant steels like SA-387 Grade 22, A335 Grade P22 or similar materials.

ES TIG 90S-B3 typically used in chemical industries for heat exchangers, boilers, piping and pressure vessels at service temperatures up to 1100°F (590 °C).

Current

DC (-)

Classifications

SFA/AWS A5.28 ER90S-B3

Typical all weld metal composition, %

C	Si	Mn	Cr	Mo
0.09	0.6	0.6	2.5	1.0

Typical mech. Properties all weld metal

Yield stress, MPa	620
Tensile strength, MPa	730
Elongation, %	22

Charpy V

Test temps, °C	Impact values, J
-40	>47

Welding parameters

Diameter, mm	Length, mm	Weight of rods/box, kg
1.6	1000	5.0
2.0	1000	5.0
2.4	1000	5.0
3.2	1000	5.0