ES TIG 80S-B6

GTAW FR80S-B6



Description

ES TIG 80S-B6 is a 5Cr-0.5Mo-alloyed (ER80S-B6), copper-coated rod for the GTAW of creepresistant steels of similar composition. The rod is also suitable for welding high strength steels with a minimum yield strength of up to 730 MPa.

ES TIG 80S-B6 is suitable for applications in the chemical or petro-chemical industry and in the ammonia synthesis process. It can also be used for heat exchangers, boilers, piping, and pressure vessels for temperature service up to 1110°F (600°C).

AWS has changed the classification for this product. The previous classification was A5.9 ER502.

Current

DC (-)

Classifications

SFA/AWS A5.28 ER80S-B6 DIN 8575 W.nr. 1.7373 EN 12070 WCrMo5

Typical all weld metal composition, %

С	Si	Mn	Cr	Ni	Мо	Cu	
0.07	0.4	0.6	5.8	<0.3	0.6	<0.4	

Typical mech. Properties all weld metal

Yield stress, MPa 730 Tensile strength, MPa 900 Elongation, % 22

Charpy V

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