ES MIG 80S-B2

GMAW FR80S-B2



Description

ES MIG 80S-B2 is a 1.3Cr-0.5Mo-alloyed (ER80S-B2), copper-coated, solid wire for the GMAW of creep-resistant steels of the same composition, but it is also suitable for welding high strength steels. ES MIG 80S-B2 finds applications in the chemical industry, in the ammonia synthesis process, for heat exchangers, boilers, piping, and pressure vessels for temperature service up to about 1020°F (550°C). It will also find applications in the petro-chemical industries, as it is suitable for facing on casting and for casting repairs.

Current

DC+

Classifications

SFA/AWS A 5.28 ER80S-B2

Typical all weld metal composition, %

С	Si	Mn	Cr	Мо
0.1	0.6	0.6	1.3	0.5

Typical mech. Properties all weld metal

Yield stress, MPa >470
Tensile strength, MPa >550
Elongation, % >19

Charpy V

Test temps, °C Impact values, J

Welding parameters

Diameter,mm	Wire feed, m/min	Welding current, A	Arc voltage,V
0.8	2.0-10.8	40-170	16-22
1.0	2.7-14.7	80-280	18-28
1.2	3.7-12.4	120-350	20-33
1.6	3.5-12	225-480	26-38