

## ELBOR STAINLESS STEEL MIG WIRE AWS A 5.9-81 ER 310

Austenitic stainless steel filler material most often used to weld base metal of similar composition even if it can be used for dissimilar welding. It has excellent resistance against oxidation especially at high temperatures (>1000°C) due to its high Cr content as well as high resistance against corrosion even when hot. Main applications are in pipes, plates and fittings in industrial furnaces and similar applications all with working at very high temperature (boilers, chambers annealing, heat exchangers, fused salt treatment installations).

**NORM: EN ISO 14343-A-25 20 - WERKSTOFF. 1.4842 – Class S3 as ISO 14344**

### TYPICAL GRADES INCLUDE:

300 series austenitic stainless steel for welding ( e.g. AISI 310,304 ) mild and carbon steel for overlay works

### TYPICAL CHEMICAL CONTENT :

Mo	Max 0.50
Cr	25.00-27.00
Ni	20.00-22.00
Mn	1.00-2.50
Si	0.30-0.65
Cu	Max 0.50
C	0.08 – 0.15

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EN ISO 14343-A: 25 20

Elongation	20 %
Impact Strenght Kv (+20°C)	> 47 J
Tensile Strenght	550 MPa
Yeld Strenght	350 MPa

### Welding positions :

