

Qu4370

En Iso 14343-A; G/W 18 8 Mn, ISO 14343-B: ~SS307; AWS/SFA-5.9: ER307 M.- No.: 1.4370

The welding is suitable for joint and build-up weldings of similar steels, austenitic manganese steels, defence technology steels and heat-resistant Cr- and CrNi-steels (for example construction of exhaust systems) as well as gamma iron-ferrite-compounds (black-white-compounds) with operating temperatures up to 300°C. The weld is resistant to scaling up to approx. 850°C. There is no adequate resistance against sulfur-containing gases by temperatures over 500°C. Resistant against seawater and dilute acids. The weld is work-hardened and wear-resistant, good for cache layers and build-ups. Weld metal hardness: untreated approx. 180 HB, approx. 41 HRC after cold work hardening.

Material analysis in %

C	Si	Mn	P	S	Cr	Ni
0,08	0,95	7,0	0,035	0,020	18,0	8,0

(test certificates upon request.)

Standard/Mechanical Values

Inert gas	Argon	Values of the pure weld metal
Temperature	20°C	
Yield strength Re	MPa	400
Tensile strength Rm	MPa	650
Elongation A (Lo = 5do)	%	35
Hardness untreated	HB	180

Following standard:

Laser welding wires

rods: 333 mm / 1.000 mm

spool: K80 / K125 / K250 / SH253 / MA125

The reported values were determined by the manufacturer and / or by a neutral Laboratory. We cannot guarantee for the accuracy.