BÖHLER Q T 316L-Si

TIG rod, high-alloyed, austenitic stainless

Classifications

EN ISO 14343-A	AWS A5.9 / SFA-5.9
W 19 12 3 L Si	ER316LSi

Characteristics and typical fields of application

TIG rod W 19 12 3 L Si / ER316LSi for joining and surfacing application with matching and similar unstabilized austenitic steels and cast steel grades. Good corrosion resistance. High metal toughness down to –196°C. Max. service temperature 400°C.

Base materials

1.4401 X5CrNiMo17-12-2, 1.4404 X2CrNiMo17-12-2, 1.4409 GX2CrNiMo19-11-2, 1.4429 X2CrNiMoN17-12-3, 1.4432 X2CrNiMo17-12-3, 1.4435 X2CrNiMo18-14-3, 1.4436 X3CrNiMo17-12-3, 1.4571 X6CrNiMoTi17-12-2
UNS S31600, S31603, S31635, S31640, S31653
AISI 316L, 316Ti, 316Cb

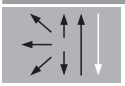
Typical analysis

	C	Si	Mn	Cr	Ni	Mo	Ferrit
wt.-%	0.02	0.9	1.7	18.5	12.0	2.6	7 FN (WRC-92)

Mechanical properties of all-weld metal - typical values (min. values)

Condition	Yield strength $R_{p0.2}$	Tensile strength R_m	Elongation A (L_0=5d_0)	Impact energy ISO-V KV J		Hardness
	MPa	MPa	%	20°C	–196°C	HB
u	470 (≥ 320)	610 (≥ 510)	31 (≥ 25)	140 (≥ 25)	58 (≥ 32)	210

Operating data



Polarity	DC -
Shielding gas (EN ISO 14175)	I1 (Ar)

Dimension mm
1.6 x 1000
2.0 x 1000
2.4 x 1000
3.2 x 1000

Approvals

TÜV, DB, CE