

EZ - MIG 318 Si

CLASSIFICATION

EN ISO	AWS / ASME	W. Nr.
14343-A	SFA-5.9	
G 19 12 3 Nb Si	ER318Si	1.4576

DESCRIPTION AND APPLICATION

Stabilized austenitic stainless steel solid wire for GMAW of corrosion resistant stabilized CrNi(Mo) steels, boilers and equipment in the chemical and pharmaceutical industry. The wire is stabilized with niobium which increases resistance to intergranular corrosion. Higher silicon content improves welding properties such as wetting. Wire is recommended for welding parts whose operating temperature exceeds 400°C.

Steel grade	DIN (W. Nr.)
High alloy stainless steels	X5 CrNiMo 17 12 (1.4401) X5 CrNiMo 17 13 3 (1.4436) X6 CrNiMoTi 17 12 2 (1.4571) X10 CrNiMoTi 18 12 (1.4573) X6 CrNiMoNb 17 12 2 (1.4580) X10 CrNiMoNb 18 12 (1.4583)

MECHANICAL PROPERTIES OF THE ALL-WELD METAL

R _{0.2} N/mm ²	R _m N/mm ²	A ₅ %	KV (+20°C) J
> 350	> 550	> 25	≥ 90

APPROXIMATE CHEMICAL COMPOSITION OF THE WIRE

	C	Mn	Si	Cr	Ni	Mo	Nb
%	≤ 0,04	1,5	0,85	19,0	12,0	2,5	0,65

SHIELDING GAS

M12 (Ar + 2,5% CO₂) or M13 (Ar + 1 to 3% O₂)

PACKAGING

Wire diameter mm	Winding
0,8; 1,0; 1,2; 1,6	precision-wound (S-S)
12,5 kg - wire spool (wire diameter 0,8 mm)	
15 kg - wire spool (wire diameter 1,0; 1,2 and 1,6 mm)	

