

Bostrand 308LSi

AWS A/SFA 5.9-93 ER308LSi
EN 12072 G 19 9 LSi



Description and applications

Bostrand 308LSi is a corrosion-resisting chromium-nickel stainless steel solid wire for welding austenitic chromium-nickel alloys of the 18%Cr/8%Ni type with low carbon content. The wire has a low carbon content which gives good resistance to intergranular corrosion of the weld. The silicon content is elevated in order to improve weldability. Bostrand 308LSi is also suitable for joining niobium-stabilised steels of the 18Cr/8Ni type if the service temperature will not exceed 400°C. It can also be used for welding ferritic stainless steels except in sulphur-rich environments.

The wire is suitable for joining grades such as AISI 304 and 304L and Werkstoff Nrs 1.4550 (X6 CrNiNb 18 10) and 1.6905 (X10 CrNiNb 18 10).

Typical all-weld mechanical properties – as welded using Ar/He or Ar/20%CO₂

Yield Stress		205 min	MPa
Tensile Strength		500-750	MPa
Elongation		40 min	%
Charpy V impact values	at +20%	110	J
	at -60°C	90	J
	at -196°C	60	J

Chemical Composition (wire)

	Min	Max
C		0.025
Si	0.65	1.00
Mn	1.5	20.0
P		0.030
S		0.025
Cr	19.5	21.0
Ni	9.5	11.0
Mo		0.50

Welding Parameters

Size (mm)	0.8	1.0	1.2
Current (amps)	50-140	80-190	180-280