Avesta 307-Si	Solid Wire	
Classifications		high-alloyed
EN ISO 14343-A:	AWS A5.9:	
G 18 8 Mn	ER307 (mod.)	

Characteristics and field of use

Avesta 307-Si is a high-alloy, fully austenitic wire designed for welding dissimilar joints between stainless and mild or low-alloy steels, as well as Mn-steels. It can also be used for welding steels like alform®. Avesta 307-Si offers a crack resistant weld with good mechanical properties. Corrosion resistance:

Primarily intended for stainless to mild steel connections but with the same corrosion resistance as 1.4301/ASTM 304.

Base materials

For welding steels such as					
Outokumpu	EN	ASTM	BS	NF	SS

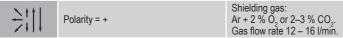
Avesta 307-Si is primarily used in dissimilar welding between stainless and mild steel or low-alloy steels.

Typical composition of solid wire (Wt-%)					
С	Si	Mn	Cr	Ni	Мо
0.08	0.8	6.8	19.0	8.0	0.1
Ferrite 0 FN					

Mechanical properties of all-weld metal

Heat Treatment	Yield strength 0.2%	Tensile strength	Elongation (L ₀ =5d ₀)	Impact values in J CVN	
	MPa	MPa	%	+20°C:	-40°C:
untreated	410	630	38	120	110

Operating data



Dimensions (mm)					
0.8	1.0	1.2	1.6		