



Solid wire, high alloyed, austenitic stainless, heat resistant

Classifications

EN ISO 14343-A AWS A5.9 / SFA-5.9
W Z 18 16 1 Cu H ER308H(mod.)

Characteristics and typical fields of application

Solid wire of W Z 18 16 1 Cu H / ER308H (mod.) type for joining and surfacing on matching austenitic creep resistant steels and cast steel grades. Good high temperature corrosion resistance.

Base materials

1.4907 X10CrNiCuNb18-9-3 and similar creep resistant austenitic steels such as Super 304 H and DMV 304 HCu 18Cr-9Ni-3Cu-Nb-N ASME SA-213; code case 2328-1

Typical analysis									
	C	Si	Mn	Cr	Ni	Мо	Nb	N	Cu
wt%	0.1	0.4	3.2	18	16.0	8.0	0.4	0.2	3.0

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	
	MPa	MPa	%	20°C	
U	380 (≥ 350)	590 (≥ 550)	(≥ 25)	(≥ 47)	

u untreated, as-welded - shielding gas Ar

Operating data



Polarity	DC+	Dimension mm
Shielding gas	11	0.8
(EN ISO 14175)		1.0
		1.2

Heat input is max. 2.0 kJ/mm, interpass temperature max. 150°C. Preheating and post-weld heat-treatment not necessary. Shielding gas: Ar

Approvals

_