

## Classifications

EN ISO 14343-A	AWS A5.9
W Z18 16 1 Cu H	ER308H (mod.)

## Characteristics and typical fields of application

GTAW rod for high quality joints on similar austenitic creep resistant steels. The weld metal shows good high temperature corrosion properties.

## Base materials

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

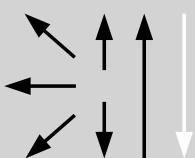
## Typical analysis of the TIG rods (wt.-%)

	C	Si	Mn	Cr	Ni	Nb	Mo	Cu	N
wt-%	0.1	0.4	3.2	18.0	16.0	0.4	0.8	3.0	0.2

## Mechanical properties of all-weld metal

Condition	Yield strength $R_e$	Tensile strength $R_m$	Elongation A ( $L_0=5d_0$ )	Impact work ISO-V KV J
	MPa	MPa	%	+20 °C
u	≥ 350	≥ 590	≥ 25	≥ 32
u	untreated, as welded – shielding gas Argon			

## Operating data

	Polarity: DC (–)	Shielding gases: 100 % Argon	Rod marking: front: ⚡ WZ 18 16 1 CuH back: 304 H Cu	Ø (mm) 2.0 2.4
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Post weld heat treatment is normally not necessary. If needed solution annealing 1100 °C.

## Approvals

TÜV (11548.), CE