

Classifications										
EN ISO 21952-A					AWS A5.28					
WZ CrMoWVNb 9 0,5 1,5					ER90S-G [ER90S-B9(mod.)]					
Characteristics and typical fields of application										
High temperature resistant. Suited for joining and surfacing applications with matching high temperature resistant parent metal P92 according to ASTM A 335.										
Base materials										
1.4901 – X10CrWMoVNB9-2; NF 616; ASTM A 213 Gr. T92; A 355 Gr. P92;										
Typical analysis of the TIG rods (wt.-%)										
	C	Si	Mn	Cr	Mo	Ni	W	V	Nb	N
wt-%	0.1	0.25	0.5	8.5	0.4	0.5	1.6	0.2	0.06	0.04
Structure: Martensite, suitable for quenching and tempering										
Mechanical properties of all-weld metal										
Heat-treatment	Yield strength R _{p0.2}		Tensile strength R _m		Elongation A (L ₀ =5d ₀)		Impact work ISO-V KV J			
	MPa		MPa		%		+20 °C			
760 °C / ≥ 2 h	560		720		15		41			
Creep rupture properties: According to matching high temperature resistant parent metal										
Operating data										
Polarity: DC (–)	Shielding gas: (EN ISO 14175) I1		Marks: † P92		ø mm 2.0 2.4		L mm 1000 1000			
Welding instruction										
Materials	Preheating / Interpass temperature			Cool down before PWHT		PWHT				
Matching steels/ cast steel grades	200 – 250 °C (392 – 482 °F) / 200 – 300 °C (392 – 572 °F)			≥100 °C (≥ 212 °F)		760 °C (1400 °F) – at least 2 h / air				
Approvals										
TÜV (09290), CE										