

TIGWELD P92

TIG Rods [GTAW]

Creep resistant steels

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 21952-A : W ZCrMoWVNb 9 0,5 1,5 AWS A-5.28 : ER 90S-G		Power generation industry

- TIG welding rods.
- For creep resistant, modified 9% Cr, 1% Mo martensitic steels T92/P92.

Application

Energy industry, especially the construction of boilers with supercritical parameters. Applications related to the chemical industry, oil and industrial gases.

Base material

For P92, 9%Cr1.7%W0.5%Mo, martensitic creep resistant steels.

X10CrWMoVNb92

ASTM: A182 grade F92, A213 grade T92, A335 grade P92, A387 grade 92.

Typical chemical composition %

C	Si	Mn	Cr	Ni	Mo	V	Nb	W
0,10	0,40	0,44	8,8	0,5	0,4	0,2	0,05	1,58

Typical mechanical properties

Yield strength Re [N/mm²]	≥540
Tensile strength Rm [N/mm²]	≥620
Elongation A5 [%]	≥17
Impact energy Kv [J]	>47J (20°C) /
Heat treatment	Annealing: 760°C
Shielding gases acc. to EN ISO 14175	I1 - Ar / I3 - Ar + >0-95% He /

Welding parameters and packing

Ø	Length [mm]	Weight of packet [kg]
1,6	1000 /	5,0
2,0	1000 /	5,0
2,4	1000 /	5,0
3,0	1000 /	5,0

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