TIGWELD 91CrMo (P91)

TIG Rods [GTAW]

Creep resistant steels

CLASSIFICATION:	APPROVALS:	APPLICATION:
EN ISO 21952-A : W CrMo91 DIN 8559 : SG CrMo91 AWS A-5.28 : ER 90S-B9	UDT	Power generation industry Constructions & Engineering

- TIG rods with Cr, Mo, V content.
- Recommended for high temperature, creep resistant P91 steels.

Application

Tanks, pipelines and turbines in supercritical energy applications (USC). Applications related to the chemical industry, oil and industrial gases

Base material

For P91, 9%Cr1%Mo modified, martensitic creep resistant steels.
X10CrMoVNB 9 1
ASTM: A182/A336 F91, A213 T91, A217 C12A, A234 WP91, A335 P91, A387

Typical chemical composition %

C	Si	Mn	Cr	Ni	Mo	V	Nb
0,10	0,25	0,50	8,7	0,60	1,0	0,2	0,04

Typical mechanical properties

Yield strength Re [N/mm2]	>520
Tensile strength Rm [N/mm2]	>620
Elongation A5 [%]	>16
Impact energy Kv [J]	>47J (20°C) /
Heat treatment	Preheat tempereature: 200°C, Interpass temperature: max 300°C, PWHT: 760°C
Shielding gases acc. to EN ISO 14175	I1 - Ar /

Welding parameters and packing

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

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