

TIG wire and rod for 9%Cr-1%Mo-Nb-V steel

Features:

- Applied for ASTM A387 Gr.91 and equivalents
- Excellent creep rupture strength

Classification: AWS A5.28 ER90S-B9

Shielding Gas: Ar

Identification color: 1st Black

Polarity: DCEN

Packaging data

φ mm	Spool		Tube	
	kg	kg	Length mm	g/piece
1.0	10	-	-	-
1.2	10	-	-	-
1.6	10	5	1,000	16
2.0	-	5	1,000	25
2.4	-	5	1,000	35
3.2	-	5	1,000	63
Volume mm	240W, 110H, 230L		40W, 35H, 1015L	

Composition (wire mass%)

	Typical	Guaranty ^a
C	0.11	0.07~0.13
Si	0.26	0.15~0.50
Mn	0.75	1.20
P	0.006	0.010
S	0.004	0.010
Cu	0.03	0.20
Cr	9.30	8.00~10.50
Mo	1.00	0.85~1.20
Ni	0.47	0.80
V	0.20	0.15~0.30
Al	<0.01	0.04
Nb	0.06	0.02~0.10
N	0.04	0.03~0.07
Mn+Ni	1.22	1.50

Note: ^aSingle values are maximum.

All-weld mechanical properties

	Typical	Guaranty
0.2%YS (MPa)	706	414min.
TS (MPa)	809	621min.
EI on 4d (%)	22	16min.
IV 0°C (J)	160	-
PWHT (°C×h)	760x2	760±15x2