

BÖHLER CN 16/13-IG

TIG rod, high-alloyed, creep resistant

Classifications

EN ISO 14343-A

W Z16 13 Nb

Characteristics and typical fields of application

GTAW rod for high quality weld joints in high efficiency boilers and turbine components. Approved in long-term condition up to +8000 °C service temperature.

Fully austenitic weld deposit. Insusceptible to embrittlement and resistant to hot cracking.

Base materials

Similar alloyed creep resistant steels

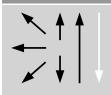
- 1.4961 X8CrNiNb16-13, 1.4910 X3CrNiMoN17-13-3, 1.4981 X8CrNiMoNb16-16,
- 1.4988 X8CrNiMoVNb16-13

Typical analysis of the TIG rods (wt%)							
	С	Si	Mn	Cr	Ni	Nb	
wt-%	0.16	0.5	2.5	15.8	13.5	1.7	

Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact work ISO-V KV J
MPa	%	+20 °C
630 (≥ 550)	25 (≥ 20)	60 (≥ 32)
	R _m MPa 630 (≥ 550)	R_m $A (L_0=5d_0)$ MPa %

u untreated, as welded – shielding gas Argon

Operating data



Polarity:	Shielding gas:
DC (-)	100 % Argon

 Rod marking:
 Ø (mm)

 front: → W Z 16 13 Nb
 2.0

 back: 1.4961
 2.4

Preheating is not required, low heat input is recommended, interpass temperature should not exceed 150 °C.

Approvals

TÜV (2728.), CE