

## **BÖHLER C 9 MVW-IG**

TIG rod, high-alloyed, creep resistant

Classifications														
EN ISO 21952-A:					AWS A5.28				AWS A5.28M					
W ZCrMoWVNb9 1 1					ER90S-B9 (mod.)				ER62	ER62S-B9 (mod.)				
Characteristics and typical fields of application														
GTAW-rod for high temperature, creep resistant martensitic 9 % chromium steels, especially designed for the steel E911 and P911. Approved in long-term condition up to +650 °C service temperature.														
Base ma	ateria	ls												
Similar alloyed creep resistant steels 1.4905 X11CrMoWVNb9-1-1, ASTM A 182 Gr. F911; A 213 Gr. T911; A 234 Gr. WP 911; A 335 Gr. P911; A 336 Gr. F911														
Typical analysis of the TIG rods (wt%)														
	С		Si	Mn	Cr	Ni	Мо		V	V Nb		W	Ν	
wt%	-% 0.11		0.35	0.45	9.0	0.75	1.0		0.2	0.06		1.05	0.04	
Mechanical properties of all-weld metal														
Condition	Yie R <sub>p0</sub>	ld streng	Ith								mpact work SO-V KV J			
Μ		MP	Pa		MPa			%			+20 °C			
а	660		)		790	790		16			50			
a annealed 760 °C / 2 h / furnace down to 300 °C / air – shielding gas Argon														
Operating data														
▶ ▶ Polarity:   ▶ ↓ ↓			-	Shielding gas: 100 % Argon			Rod marking: front: + E 911 back: -				ø (mm) 2.0 2.4			
below 80 compone The follo	) <sup>°</sup> C to ents th wing µ h, hea	o finis ne po post	sh the ma ossibility weld hea	artensite of resid at treatn	ure 200 – 3 e transform ual stresse nent is reco es below 55	ation. In o s must be ommende	case e cor d: ar	e of gr nsider nneal	eater wa ed. ing 760 °	ll thick C/min.	nes 2 I	ss or com		

max. 80 °C/h.

For optimised toughness values a welding technology should be applied which produces thin welding layers (app. 2 mm).

## Approvals

TÜV (9177.), CE