

## **BÖHLER CM 9-IG**

TIG rod, high-alloyed, creep resistant

Classifications										
EN ISO 21952-A	EN	ISO 219	Э52-В		AWS A5.28			AWS A5.28M		
W CrMo9Si	W 5	5 I1 9C1	M	E	ER80S-B8			ER55S-B8		
Characteristics and typical fields of application										
GTAW rod for 9 % Cr 1 % Mo creep resistant steels and steels for hot hydrogen service, particularly for application in oil refineries and the base metals X12CrMo9-1 (P9). Approved in long-term condition up to +600 °C service temperature.										
Base materials										
Similar alloyed creep resistant steels 1.7386 X11CrMo9-1, 1.7388 X7CrMo9-1 ASTM A 182 Gr. F9; A 213 Gr. T9; A 217 Gr. C12; A 234 Gr. WP9; A 335 Gr. P9; A 336 Gr. F9; A 369 Gr. FB9; A 387 Gr. 9 u. 9CR; A 426 Gr. CP9; A 989 Gr. K90941										
Typical analysis of the TIG rods (wt%)										
	С		Si		Mn		Cr			Мо
wt%	0.07		0.4		0.5 9		9.0			1.0
Mechanical properties of all-weld metal										
Condition	Condition Yield strength R <sub>p0,2</sub>		Tensile R <sub>m</sub>	stre	ength Elongation A $(L_0=5d_0)$		Impact work ISO-V KV J			
	MPa	a MPa				%		+20 °C		
а	<b>530</b> (≥ 47	<b>30</b> (≥ 470)		590)		<b>24</b> (≥ 18	<b>220</b> (≥ 34)			
a annealed 760 °C / 2 h / furnace down to 300 °C / air – shielding gas Argon										
Operating data										
	olarity: )C(一)	•••			Rod marking: front: + W CrMo9 Si back: ER80S-B8			<b>ø (mm)</b> 2.4		
Preheating and interpass temperature 250 – 350 °C. Tempering at 710 – 760 °C for at least 1 h followed by cooling in furnace down to 300 °C/air. For detailed information about the welding technology please contact our service departments.										
Approvals										

TÜV (2182.), SEPROZ, CE