

BÖHLER NiCrMo 2.5-IG

TIG rod, low-alloyed, high strength

Classifications					
EN ISO 16834-A	EN ISO 16834-B	AWS A5.28	AWS A5.28M		
W 69 6 I1 Mn3Ni2.5CrMo	W 76A 6 I1 N5M3	ER110S-G	ER76S-G		

Characteristics and typical fields of application

GTAW rod for joint welding of high- strength fine- grained constructional steels with stringent requirement on low-temperature toughness down to -60°C. e.g in marine engineering for the manufacture of LPG tankers.

Base materials

Quenched and tempered fine-grained steels with high requirements for low-temperature toughness S620Q, S620QL, S690QL, S690QL, S620QL1-S690QL1, alform plate 620 M, 700 M, aldur 620 Q, 620 QL1, aldur 700 Q, 700 QL, 700 QL1

ASTM A 514 Gr. F, H, Q; A 709 Gr. 100 Type B, E, F, H, Q; A 709 Gr. HPS 100W

Typical analysis of the TIG rods (wt%)						
	С	Si	Mn	Cr	Ni	Мо
wt%	0.08	0.6	1.4	0.3	2.5	0.4

Mechanical properties of all-weld metal							
Condition	Yield strength R _{p0,2}	Tensile strength R _m	Elongation A (L ₀ =5d ₀)	Impact work ISO-V KV J			
	MPa	MPa	%	+20 °C	−40 °C	−60 °C	
u	750 (≥ 690)	830 (770 – 960)	22 (≥17)	160	80	≥ 47	

u	untreated,	, as-welded –	· shielding gas <i>i</i>	Argon
---	------------	---------------	--------------------------	-------

Operating data							
	Polarity: DC (–)	Shielding gas: 100 % Argon	Rod marking: front: + W NiCrMo2.5 back: ER110S-G	ø (mm) 2.4			
Preheating and interpass temperature as required by the base metal.							