

# **BÖHLER 900 T-MC**

Metal cored wire, seamless, high strength

Classifications	
EN ISO 18276-A	AWS A5.28
T89 6 Z M M 1 H5	E120C-H4

## Characteristics and typical fields of application

Seamless, Nickel-Chromium-Molybdenum alloyed, metal cored wire for single- or multilayer welding of high strength steels with Ar-CO<sub>2</sub> shielding gas.

Features include: high yield, good weldability, excellent bead appearance, very low spatter losses and exceptional mechanical properties at low temperatures (-60°C). Wire with very low amount of diffusible hydrogen in the weld metal (< 3 ml/100g). This wire is especially suitable for particular critical applications and high quality welding for crane and offshore constructions.

#### **Base materials**

S690Q-S890Q, S690QL-S890QL, S960QL, PAS 700, alform 700 M, alform 900 x-treme, alform 960 x-treme

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

Typical analysis of all-weld metal (wt%)							
	Gas	С	Si	Mn	Cr	Ni	Мо
wt-%	M21	0.10	0.50	1.85	0.40	2.60	0.55

Mechanical properties of all-weld metal						
Condition	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J		
	MPa	MPa	%	-40°C	-60°C	
u	<b>980</b> (≥890)	<b>1080</b> (940-1180)	<b>17</b> (≥15)	58	<b>55</b> (≥47)	
u untreated, as welded – shielding gas M21						

## **Operating data**

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* * *	Polarity:	Shielding gas:	ø (mm)		
<b>→</b>	DC (+)	(EN ISO 14175) M21	1.2		

Welding with standard GMAW-facilities possible

#### **Approvals**

TÜV (12582), CE