MEGAFIL[®] 1100 M

EN ISO 18276-A: T 89 4 ZMn2NiCrMo M M21 1 H5

AWS A5.28: E120C-G H4

WELDING POSITIONS:



BENEFITS	APPLICATIONS
 Minimized risk of hydrogen-induced cracking No re-drying Suitable for robot applications Reduces clean-up time, improves productivity Root welding without backing Automatic root welding possible 	 Automatic and mechanized welding Steel structures Offshore structures Non-alloy and fine grain steels General fabrication Heavy equipment Single and multi-pass welding
Gas shielded metal-cored wire 75-85% Argon (Ar) / Balance Carbon Dioxid (CO ₂); Gas Flow 12-18 l/min (25-38 cfh)	
Direct Current Electrode Positive (DCEP) Ø 1.2 mm (0.045") < 3.0 ml / 100 g; Guaranteed for the total processing time < 4.0 ml / 100 g maximum (AWS Spec)	
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MATERIALS TO BE WELDED*

TM pipesteels	Rel ≤ 890 MPa	up to S890QL1	
Fine grain structural steels	Rel ≤ 890 MPa	S890QL1	
*) The specified base materials are not complete and should only be seen as examples. The selection of the appropriate combination of steel and welding consumable should follow the specific mechanical strength and toughness requirements.			

ALL WELD METAL CHEMISTRY (%) (typical values for mixed gas 82% Ar / 18% CO2)

Carbon(C)	0.07	Nickel (Ni)	2.6
Manganese (Mn)	1.5	Molybdenum (Mo)	0.55
Silicon (Si)	0.35	Chromium (Cr)	0.5
Sulphur (S)	0.015		
Phosphorus (P)	0.015		

ALL WELD METAL MECHANICAL PROPERTIES (for mixed gas 82% Ar / 18% CO2)

Mechanical tests	Typical values MPa (ksi)	ISO Specification MPa (ksi)
Tensile Strength Rm	1010 (146)	940 - 1140 (136 - 171)
Yield strength Rp0.2	950 (138)	> 890 (129)
Expansion A5	15%	15%

CHARPY V-NOTCH IMPACT VALUES (for mixed gas 82% Ar / 18% CO2)

Mechanical Tests	Typical values [J] (ft.lbf)	ISO Specification [J] (ft.lbf)
-40 °C	55 (41)	> 47 (35)

APPROVALS: CE

Please contact the manufacturer to learn the present scope of approvals

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