ENERGOMAG 3-CF



Solid wire, copper free

Classifications	<u>DIN 8559</u> SG3	G 46 :	<u>EN ISO 1</u> 5 M21 4Si1/		l 4Sil	<u>AWS A 5.18</u> ER 70S-6	
Description	Copper free solid wire used for MIG/MAG welding with mixed-gases as well as with CO2. Higher content of silicon and manganese allows to increase the weld metal strength. This also promotes a low sensitivity to surface impurities and contributes to smooth welding. Provides stable arc and low spatter, low fume emission. Reduced contact tip wear is observed as well as improved protection against corrosion. Used in general construction, shipbuilding and automotive components. Especially dedicated to mechanised welding processes.						
Base materials	Steels up to a yield strength 460 MPa for M21/ 420MPa for C1 S235JR-S355JR, S235JO-S355JO, S450JO, S235J2-S355J2, S275N-S460N, S275M-S460M, P235GH-P355GH, P275NL1-P460NL1, P215NL, P265NL, P355N, P285NH-P460NH, P195TR1- P265TR1, P195TR2-P265TR2, P195GH- P265GH, L245NB-L415NB, L450QB, L245MB-L450MB, GE200-GE240, ship building steels: A, B, D, E, A 32-E 36						
Typical composition	С	Si	Mn	S	Р	Cu	
of solid wire (%)	0,06-0,14	0,80-1,2	1,6-1,9	≤0,025	≤0,025	≤0,35	
Mechanical propertie of all-weld metal (acc to EN 15792-1, min. values, shielding gas M21)	S	Yield strength 0,2% N/mm ² ≥ 460	Tensile strength N/mm ² 530-680	(L4 %	$\frac{1}{2} 20$	Impact values in J CVN $-40 ^{\circ}\text{C}$ ≥ 47	



Polarity =+ Shielding gases: (EN ISO 14175: M2, M3, C)

Dimensions (mm)	0,8-1,6
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Certificates CE, TÜV, DB

