

Classifications							
EN ISO 14341-A				AWS A5.18			
G 42 2 C1 3Si1 / G 46 4 M21 3Si1				ER70S-6			
Characteristics and field of use							
<p>GMAW solid wire electrode for welding unalloyed and low alloy steels with shielding gas. All-purpose useable with gas mixture or CO₂, low-spatter transfer in the short and spray arc range. Used in boiler and pipeline construction, shipbuilding, vehicle manufacturing and structural engineering.</p>							
Base materials							
<p>S235JRG2 – S355J2; boiler steels P235GH, P265GH, P295GH; fine grained structural steels up to S420N and armour steels. ASTM A27 u. A36 Gr. all; A106 Gr. A, B; A214; A242 Gr. 1-5; A266 Gr. 1, 2, 4; A283 Gr. A, B, C, D; A285 Gr. A, B, C; A299 Gr. A, B; A328; A366; A515 Gr. 60, 65, 70; A516 Gr. 55; A556 Gr. B2A; A570 Gr. 30, 33, 36, 40, 45; A572 Gr. 42, 50; A606 Gr. alle; A607 Gr. 45; A656 Gr. 50, 60; A668 Gr. A, B; A907 Gr. 30, 33, 36, 40; A851 Gr. 1, 2; A935 Gr. 45; A936 Gr. 50</p>							
Typical analysis in %							
C		Si			Mn		
0.08		0.85			1.50		
Mechanical properties of the weld metal							
Heattreatment	Shielding gas	0.2%-Yield strength	Tensile strength	Elongation (L ₀ =5d ₀)	Impact values CVN		
		MPa	MPa	%	J	- 20 °C	- 40 °C
AW	CO ₂	420	540	25	85	47	-
AW	M21	440	560	24	95	60	47
Approvals							
TÜV (No. 00106), DB (No. 42.132.02), ABS, DNV, GL, LR							
Wire diameter [mm]	Current type			Shielding gas (EN ISO 14175)			
0.8	DC (+)			M1	M2	M3	C1
1.0	DC (+)			M1	M2	M3	C1
1.2	DC (+)			M1	M2	M3	C1
1.6	DC (+)			M1	M2	M3	C1
Other spool types on request.							