

Classifications					
EN ISO 636-A		AWS A5.18			
W 42 5 W3Si1		ER70S-6			
Characteristics and field of use					
GTAW solid rod for the welding with argon. Typical fields of use: boiler, tank and pipeline constructions and apparatus engineering.					
Base materials					
Unalloyed structural steels acc. to EN 10025: S185, S235JR, S235JRG1, S235JRG2, S275JR, S235J0, S275J0, S355J0. Boiler steels P235GH, P265GH, P295GH, P355GH.					
Fine grained structural steels up to S420N. ASTM A27 and A36 Gr. all; 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; A570 Gr. 30, 33, 36, 40, 45; A572 Gr. 42, 50; A606 Gr. all; A607 Gr. 45; A656 Gr. 50, 60; A668 Gr. A, B; A907 Gr. 30, 33, 36, 40, A841; A851 Gr. 1, 2; A935 Gr. 45; A936 Gr. 50; API 5 L Gr. B, X42-X56.					
Typical analysis in %					
C		Si		Mn	
0,08		0,85		1,50	
Mechanical properties of the weld metal					
Heat-treatment	Yield strength R <sub>p0,2</sub>	Tensile strength R <sub>m</sub>	Elongation A	Impact strength K <sub>v</sub>	
	MPa	MPa	%	J [RT]	- 50 °C
as welded	440	560	25	130	50
Approvals					
TÜV (No. 01656), DB (No. 42.132.119), DNV					
Rod diameter x length [mm]	Current type		Shielding gas		
1,6 x 1000	DC (-)		I 1		
2,0 x 1000	DC (-)		I 1		
2,4 x 1000	DC (-)		I 1		
3,2 x 1000	DC (-)		I 1		