

## Classifications

N ISO 14341-A	EN ISO 14341-B	AWS A5.18
G 42 2 C1 3Si1 G 42 4 M21 3Si1	G 49A 2 C1 S12 G 49A 4 M21 S12	ER70S-6

## Characteristics and typical fields of application

GMAW solid wire electrode for welding of unalloyed and low alloy steels. Especially designed for mechanized gas-shielded arc welding with robots. Comparable metallurgically to Union K 52.

High analysis maintenance and particularly good feeding and electric contact characteristics; spooling quality suitable for robots.

## Base materials

S235JR-S355JR, S235JO-S355JO, S235J2-S355J2, S275N-S420N, S275M-S420M, P235GH-P355GH, P275NL1-P355NL1, P215NL, P265NL, P355N, P285NH-P420NH, P195TR1-P265TR1, P195TR2-P265TR2, P195GH-P265GH,

ASTM A 106 Gr. A, B, C; A 181 Gr. 60, 70; A 283 Gr. A, C; A 285 Gr. A, B, C; A 350 Gr. LF1; A 414 Gr. A, B, C, D, E, F, G; A 501 Gr. B; A 513 Gr. 1018; A 516 Gr. 55, 60, 65, 70; A 573 Gr. 58, 65, 70; A 588 Gr. A, B; A 633 Gr. C; A 662 Gr. B; A 711 Gr. 1013; A 841 Gr. A;

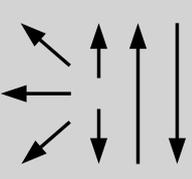
## Typical analysis of solid wire (wt.-%)

	C	Si	Mn
wt-%	0.09	0.85	1.50

## Mechanical properties of all-weld metal

Heat-treatment	Shielding gas	Yield strength	Tensile strength	Elongation	Impact work		
		R <sub>p0.2</sub>	R <sub>m</sub>	A (L <sub>0</sub> =5d <sub>0</sub> )	ISO-V KV J		
		MPa	MPa	%	+20 °C	-20 °C	-40 °C
aw	CO <sub>2</sub>	420	540	25	85	50	
aw	M21	450	570	24	95	60	50

## Operating data

	<b>Polarity:</b> DC ( + )	<b>Shielding gas:</b> (EN ISO 14175) M1 – M3 und C1	<b>ø mm</b>	<b>Spool:</b> B300 B300 B300
			0.8	
			1.0	
1.2				

## Approvals

TÜV (04168), DB (42.132.16), CE