

## Classifications

EN ISO 2560-A	EN ISO 2560-B	AWS A5.5	AWS A5.5M
E 46 6 1Ni B 4 2 H5	E 5518-N2 AU	E8018-C3	E5518-C3

## Characteristics and typical fields of application

Basic covered Ni alloyed electrode.

Very pure weld metal quality controlled to KTA 1408.2; H<sub>2</sub>-content of weld metal ≤ 5 ml/100 g; high toughness values at low temperatures, NDT-tested; CTOD-tested to temperatures as low as -10 °C (-14 °F). Preferred for welding nuclear reactor fabrication steels such as 15 MnNi 63; for fine grained steels up to S420N (S420NL and P355NL2).

## Base materials

15 MnNi 63 (TSB 370), C 22.8 S1, GS-C 25,  
Feinkornbaustähle S275N - S420N; kaltzähe Feinkornbaustähle S275NL - S420NL;  
kaltzähe Sondergüten P275NL2 - P355NL2;  
Allgemeine Baustähle, Kesselbleche und Rohrstähle

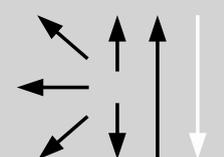
## Typical analysis of all-weld metal (wt.-%)

	C	Si	Mn	Ni
wt-%	0.06	0.25	1.15	0.95

## Mechanical properties of all-weld metal

Heat-treatment	Yield strength R <sub>p0.2</sub>	Tensile strength R <sub>m</sub>	Elongation A (L <sub>0</sub> =5d <sub>0</sub> )	Impact work ISO-V KV J	
	MPa	MPa	%	+20 °C	-60 °C
aw	470	550	25	160	50
sr	420	510	26	160	50

## Operating data

	<b>Polarity:</b> DC ( + )	<b>Redrying:</b> 300 – 350 °C / 2 h (572 – 662 °F).	<b>ø (mm)</b>	<b>L mm</b>	<b>Amps A</b>
			3.2 4.0	350 350	100 – 150 140 – 200

## Approvals

TÜV (02199 + 08011), CE