

1. Alloys

Alloy	Numeric abbreviations	Classification	UNS-No.
DIN EN ISO 18274:2011		AWS 5.14:2011	
NiCr30Fe9	Ni 6052	EQNiCrFe-7	N06052
NiCr23Mo16	Ni 6059	EQNiCrMo-13	N06059
NiCr20Mn3Nb	Ni 6082	EQNiCr-3	N06082
NiCr22Mo9Nb	Ni 6625	EQNiCrMo-3	N06625
NiCr15Mo16Fe6W4	Ni 6276	EQNiCrMo-4	N10267
NiCu30Mn3Ti	Ni 4060	EQNiCu-7	N04060
NiT3	Ni 2061	EQNi-1	N02061

Additional welding consumables according to DIN EN ISO 18274, AWS A5.14 or according to separate customer specifications are possible on request.

2. Chemical composition (Reference values in % w/w)

Alloy		Ni	Co	Cu	Fe	C	Cr	Mn	Si	Ti	Mo	Nb	Al	W	V
NiCr30Fe9	min.	54.0			7.0		28.0								
	max.			0.3	11.0	0.04	31.5	1.0	0.50	1.0	0.5	0.10			
NiCr23Mo16	min.	56.0					22.0				15.0		0.1		
	max.		0.3	0.5	1.5	0.01	24.0	0.5	0.10	0.5	16.5		0.4		0.30
NiCr20Mn3Nb	min.	67.0					18.0	2.5				2.00			
	max.			0.5	3.0	0.10	22.0	3.5	0.50	0.7		3.00			
NiCr22Mo9Nb	min.	58.0					20.0				8.0	3.15			
	max.			0.5	5.0	0.10	23.0	0.5	0.50	0.4	10.0	4.15	0.4		
NiCr15Mo16Fe6W4	min.	50.0			4.0		14.5				15.0			3.0	
	max.		2.5	0.5	7.0	0.02	16.5	1.0	0.80		17.0			4.5	0.35
NiCu30Mn3Ti	min.	62.0		28.0				2.0		1.5					
	max.			32.0	2.5	0.15		4.0	1.20	3.0		0.30	1.2		
NiTi3	min.	92.0								2.0					
	max.			0.2	1.0	0.15		1.0	0.70	3.5			1.5		



3. Dimensions and tolerances: Thickness & Width (in mm)

Thicknes	Width 25 - 100	Width > 100 - 200	Width > 200 - 280
0.20 - 0.35	+/- 0.02	+/- 0.02	+/- 0.03
> 0.35 - 0.60	+/- 0.03	+/- 0.03	+/- 0.04
> 0.60 - 1.00	+/- 0.04	+/- 0.05	+/- 0.05
> 1.00 - 1.50	+/- 0.05	+/- 0.06	+/- 0.07
> 1.50 - 2.00	+/- 0.06	+/- 0.07	+/- 0.08

Width	Thicknes 0.20 - 1.00	Thicknes > 1.00 - 1.80	Thicknes > 1.80 - 2.00
< 100	+ 0.2	+ 0.3	+ 0.5
> 100 - 200	+ 0.3	+ 0.5	+ 0.7
> 200 - 320	+ 0.6	+ 1.0	+ 1.2

The following tolerances apply to the standard dimension of hard-rolled strips for overlay welding:

Thickness 0.50 ± 0.035 mm

Width $30 - 180 \pm 0.2$ mm

4. Delivery forms (in mm)

Form	Thickness	Width	Coil-ID	Coil-OD
Strip - soft	0.20 - 2.00	25 - 280	300 / 400 / 500	max. 1050
Strip - hard	0.50	30 - 180	300 / 400 / 500	max. 1050

Important Note: All data in this Material Data Sheet are only for information purposes. Other dimensions and features to customer specification on request. Guarantees relating to specific characteristics or purposes require always a special written agreement.