

1. Alloys

Alloy	Material UNS No.	Standard
LC-NiCr15Fe	2.4817	DIN 17742
NiCr15Fe	2.4816 / N06600	DIN 17742 / ASTM B168
NiCr23Fe	2.4851 / N06601	DIN 17742 / ASTM B168
NiCr9		

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

Alloy		Ni (+Co)	Cr	Al	C	Cu	Fe	Mn	Si	Ti
LC-NiCr15Fe	min.	72	14				6			
	max.		16	0.3	0.025	0.5	10	1.0	0.5	0.3
NiCr15Fe	min.	72	14		0.025		6			
	max.		17	0.3	0.1	0.5	10	1.0	0.5	0.3
NiCr23Fe	min.	58	21	1.0						
	max.	63	25	1.7	0.1	0.5	18	1.0	0.5	0.5
NiCr9	min.		9					0.2	0.1	
	max.	balance	10	0.1	0.1	0.1	0.3	0.4	0.2	0.1

3. Physical properties

Alloy	Density	Average linear thermal expansion coefficient 20 °C - 100 °C	Thermal conductivity at 20 °C	E-Modulus
	g/cm ³	10 ⁻⁶ /K	W/m • K	GPa
LC-NiCr15Fe	8.5	14	11	
NiCr15Fe	8.5	14	11	
NiCr23Fe	8.2	14	11	207
NiCr9	8.3			



4. Mechanical properties (Reference values soft-annealed condition)

Alloy	0.2 % Yield strength	Tensile strength	Elongation	Vickers hardness
	MPa	MPa	%	HV
LC-NiCr15Fe	300	630	35	150
NiCr15Fe	300	700	35	170
NiCr23Fe	350	740	40	180
NiCr9	280	600	35	145

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

Thickness	Width 10 - 100	Width > 100 - 200	Width > 200 - 320
0.20 - 0.35	+/- 0.020	+/- 0.020	+/- 0.030
> 0.35 - 0.60	+/- 0.030	+/- 0.030	+/- 0.040
> 0.60 - 1.00	+/- 0.040	+/- 0.050	+/- 0.050
> 1.00 - 1.50	+/- 0.050	+/- 0.060	+/- 0.070
> 1.50 - 2.50	+/- 0.060	+/- 0.070	+/- 0.080

Width	Thickness 0.20 - 1.00	Thickness > 1.00 - 1.80	Thickness > 1.80 - 2.50
10 - 100	+ 0.2	+ 0.3	+ 0.5
> 100 - 200	+ 0.3	+ 0.5	+ 0.7
> 200 - 320	+ 0.6	+ 1.0	+ 1.2

Length (in mm)

Thickness	Length 500 - 3000
0.40 - 2.00	+ 10

6. Delivery forms (in mm)

Form	Thickness	Width	Length	Coil-ID	Coil-OD
Coil	0.20 - 2.50	10 - 320		300 / 400 / 500	max. 1050
Strip / Sheet	0.40 - 2.00	50 - 320	500 - 3000		

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.