

Bar



Deutsche Nickel

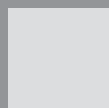


Size Range



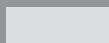
Cold Drawn:
6.35 mm – 88.9 mm
0.25 in – 3.5 in

Hot Worked:
20 mm – 450 mm
0.75 in – 17.7165 in



Cold Drawn:
6.35 mm – 35 mm
0.25 in – 1.25 in

Hot Worked:
20 mm – 450 mm
0.75 in – 17.7165 in



Cold Drawn:
15 mm – 35 mm x
4 mm – 12.7 mm

0.5905 in – 1.3779 in x
0.1574 in – 0.5 in



Cold Drawn:
6.35 mm – 69.85 mm A/F
0.25 in – 2.75 in

Alloy Grades

Nickel / Nickel Alloys

Alloy	DN Trade name	Material No. / UNS	Specification	Chemical analysis
200	R-Nickel 99.2	2.4066 / N02200	ASTM B160 DIN 17740	Ni min. 99.2%
201	NR-Nickel 99	2.4068 / N02201	ASTM B160 DIN 17740 VdTÜV-345	Ni min. 99% C max. 0.02%
Ni 99.6	BR-Nickel 99.6	2.4060	DIN 17740	Ni min. 99.6%
LC-Ni 99.6	NR-Nickel 99.6	2.4061	DIN 17740	Ni min. 99.6%, C max. 0.02%

Iron-Nickel Alloys

Alloy	DN Trade name	Material No. / UNS	Specification	Chemical analysis
NiCo29/18	Dilaton 29/18	1.3981 / K94610	ASTM F15 DIN 17745 / SEW 385	Fe 53%, Ni 29%, Co 18%
FeNi36	Dilaton 36	1.3912 / K93603	ASTM F1684 DIN 17745 / SEW 385	Fe 64%, Ni 36%
FeNi36	Dilaton 36M	1.3911	DIN 17745	Fe 64%, Ni 36%
FeNi42	Dilaton 41	K94100	ASTM F30	Fe 59%, Ni 41%
FeNi42	Dilaton 42	1.3917	DIN 17745 / SEW 385	Fe 58%, Ni 42%
FeNi48	Dilaton 48	1.3922 / K94800	ASTM F30 DIN 17745 / SEW 385	Fe 52%, Ni 48%
W48	W48 Soft-Magnetic	1.3922	DIN 17745	Fe 52%, Ni 48%

Copper-Nickel Alloys

Alloy	DN Trade name	Material No. / UNS	Specification	Chemical analysis
CuNi10 Fe1Mn	CuNi10Fe1Mn	(2.0872) / (CW352H) C70600	ASTM B151	Cu 88%, Ni 10%, Fe 1.5%
CuNi30 Mn1Fe	CuNi30Mn1Fe	(2.0882) / (CW354H) C71500	ASTM B151	Cu 69%, Ni 30%, Fe 0.7%
CuNi44 Mn1	Vernicon	(2.0842) / C72150	ASTM B151 (DIN 17664)	Cu 55%, Ni 44%

Nickel-Copper Alloys

Alloy	DN Trade name	Material No. / UNS	Specification	Chemical analysis
400	Silverin 400	2.4360 / N04400	ASTM B164 / B564 DIN 17743 QQN281/VdTÜV-263	Ni 64%, Cu 32%, Fe 2%, Mn 1.2%
405	Silverin 405	2.4363 / N04405	ASTM B164 DIN 17743 QQN281	Ni 64%, Cu 32%, Fe 1.5%, Mn 1.9%, S 0.04%
K500	Silverin 500	2.4375 / N05500	ASTM B865 DIN 17743 QQN286	Ni 65%, Cu 30%, Al 3%, Fe 0.8%, Ti 0.6%

Nickel-Chrome-Iron Alloys

Alloy	DN Trade name	Material No. / UNS	Specification	Chemical analysis
600	Ferrochronin	2.4816 / N06600	ASTM B564 / B166 DIN 17742	Ni 74%, Cr 16%, Fe 9%
LC-NiCr 15Fe	Ferrochronin 600LC	2.4817	DIN 17742	Ni 77%, Cr 14.5%, Fe 7.5%, C < 0.025%
601	Ferrochronin 601	2.4851 / N06601	ASTM B166 DIN 17742	Ni 61%, Cr 23%, Fe 14%, Al 1.4%

Nickel-Chrome Alloys

Alloy	DN Trade name	Material No. / UNS	Specification	Chemical analysis
625	Chronin 625	2.4856 / N06625	ASTM B446 / B564 DIN 17744	Ni 60%, Cr 22%, Mo 9%, Fe 4%, Nb 3.5%, Ti 0.3%
C4	Chronin C4	2.4610 / N06455	ASTM B574 DIN 17744	Ni 67%, Cr 16%, Mo 16%, Ti 0.5%,
C22	Chronin C22	2.4602 / N06022	ASTM B564 / B574 DIN 17744 DIN EN ISO 15156	Ni 57%, Cr 21.5%, Mo 13.5%, Fe 4%, W 3.5%
C276	Chronin C276	2.4819 / N10276	ASTM B574 / B564 DIN 17744 DIN EN ISO 15156	Ni 58%, Cr 16%, Mo 16%, Fe 6%, W 4%
718	Chronin 718	2.4668 / N07718	API 6A / ASTM B637 DIN 17744 / DIN EN ISO 15156 NACE MR 0175	Ni 54%, Fe 18%, Cr 18.5%, Nb 5%, Mo 3%, Ti 1%
80A	NiCr20TiAl	2.4952 / N07080	DIN 17742 / DIN EN 10090 / DIN EN 10269 / ASTM B637	Ni 75%, Cr 20%, Ti 2.2%, Al 1.4%,
925	Chronin 925	2.4852 / N09925	ASTM B637 / ASTM B805 / API Standard 6A CRA	Ni 44%, Cr 21%, Fe 27%, Mo 3%, Ti 2.2%, Cu 1.9%

R-Ni 99.2 (200) NR-Ni 99 (201)	7.5 – 69 mm	5/16 in – 2 3/4 in	450 kg / 990 lbs
	70 – 120 mm	2 3/4 in – 4 3/4 in	900 kg / 2,000 lbs
	121 – 149 mm	4 3/4 in – 5 7/8 in	750 kg / 1,700 lbs
	150 – 210 mm	5 7/8 in – 8 1/4 in	1,500 kg / 3,300 lbs
	211 – 450 mm*	8 5/16 in – 17 3/4 in	3,000 kg / 6,600 lbs

Dilaton 29/18 Dilaton 36 Dilaton 41 / 42 Dilaton 48 / W48 Silverin 500	7.5 – 69 mm	5/16 in – 2 3/4 in	400 kg / 880 lbs
	70 – 120 mm	2 3/4 in – 4 3/4 in	900 kg / 2,000 lbs
	121 – 149 mm	4 3/4 in – 5 7/8 in	750 kg / 1,700 lbs
	150 – 210 mm	5 7/8 in – 8 1/4 in	1,500 kg / 3,300 lbs
	211 – 450 mm*	8 5/16 in – 17 3/4 in	3,000 kg / 6,600 lbs

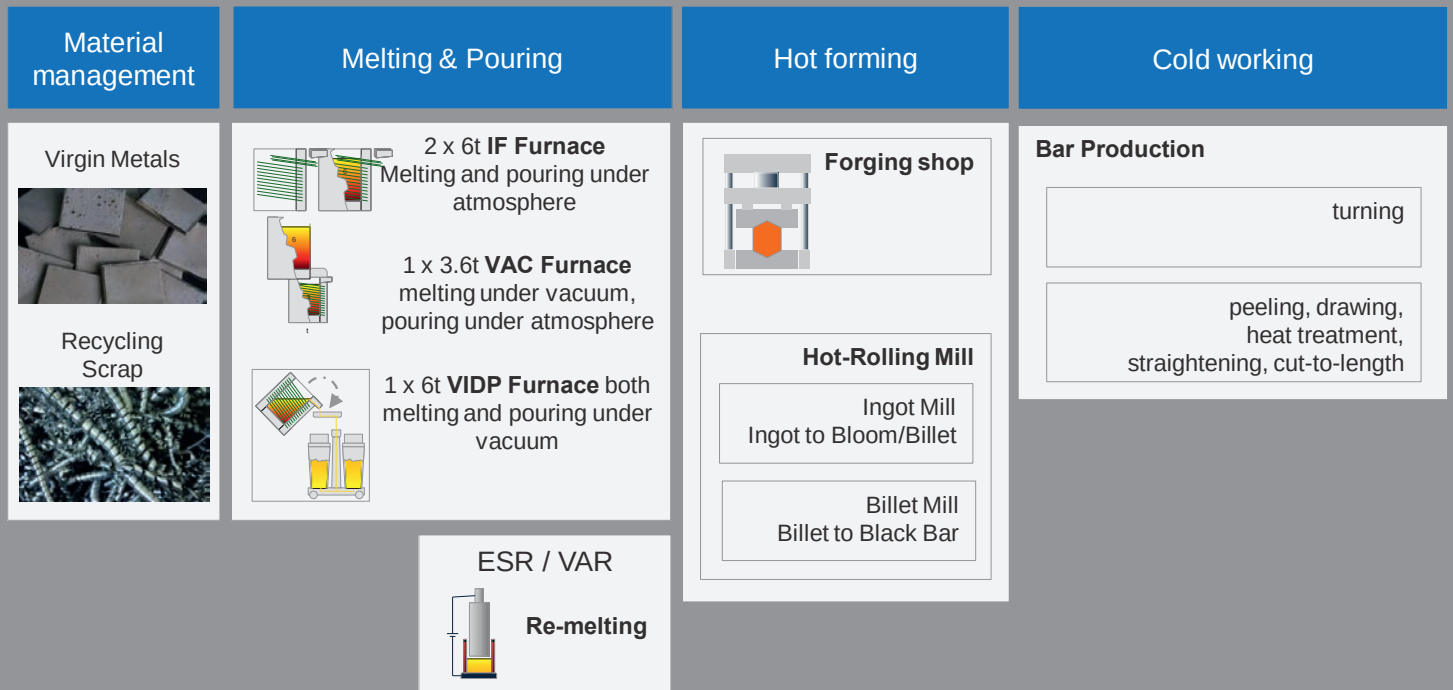
Silverin 400 Silverin 405 CuNi10Fe1Mn CuNi30Mn1Fe	7.5 – 69 mm	5/16 in – 2 3/4 in	450 kg / 990 lbs
	70 – 120 mm	2 3/4 in – 4 3/4 in	900 kg / 2,000 lbs
	121 – 149 mm	4 3/4 in – 5 7/8 in	750 kg / 1,700 lbs
	150 – 210 mm	5 7/8 in – 8 1/4 in	1,500 kg / 3,300 lbs
	211 – 450 mm*	8 5/16 in – 17 3/4 in	3,000 kg / 6,600 lbs

Ferrochronin 600 Ferrochronin 601 Chronin 625	7.5 – 69 mm	5/16 in – 2 3/4 in	300 kg / 660 lbs
	70 – 120 mm	2 3/4 in – 4 3/4 in	900 kg / 2,000 lbs
	121 – 250 mm	2 3/4 in – 5 7/8 in	1,500 kg / 3,300 lbs
	251 – 450 mm*	9 7/8 in – 17 3/4 in	3,000 kg / 6,600 lbs

Chronin C 276 Chronin C 22 Chronin C 4 Chronin 718 Chronin 80A	7.5 – 69 mm	5/16 in – 2 3/4 in	300 kg / 660 lbs
	70 – 130 mm	2 3/4 in – 5 1/8 in	900 kg / 2,000 lbs
	131 – 250 mm	5 1/8 in – 9 7/8 in	1,500 kg / 3,300 lbs
	251 – 450 mm*	9 7/8 in – 17 3/4 in	3,000 kg / 6,600 lbs

*450 mm (17 3/4 in) on request

Minimum Order Quantities



Manufacturing Process

Cold Drawn

Round

ISO 286 h9 to 88.9 mm Ø

Hexagonal

ISO 286 h11 or h12

Square

Flat

Annealed

Solution annealed

Precipitation hardened

Stress relieve annealed

Hot Worked

Turned or peeled +0.78 / - 0 mm

+0.0307 / -0 in

(> 20 mm / 0.7874 in)

Tighter tolerances on request

Supply Conditions





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