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Welcome

NeoNickel is a group of companies supplying specialist alloys to customers in a wide range of markets across Europe. Our strengths are the experience of our people, our inventory, our processing capabilities and our technical expertise.

Our comprehensive stock range include: **Stainless, Super Duplex & Duplex Stainless Steels, Nickel, Cobalt and Titanium Alloys.**

For more information on our alloys or services visit our website today!

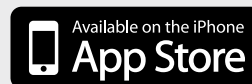
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NeoNickel Markets

We are the European leaders in providing high performance specialty alloys to a diverse range of industries.



AEROSPACE



CHEMICAL PROCESSING



MOTORSPORT



OIL & GAS



PETROCHEMICALS & REFINERIES



PHARMACEUTICAL & BIO SYNTHETICS



POWER GENERATION



THERMAL PROCESSING

Products

NeoNickel specialises in supplying high performance metal alloys in a range of forms to a wide variety of industries.



Round Bar

We supply a comprehensive range in round bar, catering for demands within a wide range of industries.

Expanded Metal

As a highly respected European supplier of specialist metal alloys we can now supply expanded metal in RA330®.

Flanges

From blind flanges to socket weld flanges and more...

Pipe and Tube

Cut to length to meet your specific requirements.

Pipe Fittings

From stub ends, equal tees, reducers and more.

Sheet & Plate

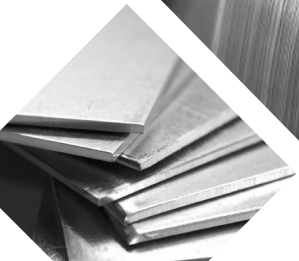
NeoNickel supplies a comprehensive range in sheet and plate products, catering for demands within a wide range of industries.

Coil

We supply a comprehensive range in coil products - catering for the demands of a wide range of industries.

Welding Consumables

NeoNickel supplies high quality welding consumables.



Alloy List

NICKEL ALLOYS	
20	UNS: N08020 WSt.-Nr. 2.4660 ASTM: B471, B472, B474, B475 ASME: SB462, SB463, SB464
22	UNS: N06022 WSt.-Nr. 2.4602 ASTM: B564, B574, B575, B619, B622, B626, B366, B462, B775 ASME: SB366, SB574, SB619, SB622, SB626, SFA5.14 (ERNiCrMo-10)
36	UNS: K93603 WSt.-Nr. 1.3912 ASTM: F1684 AFNOR NF A54-301
75	UNS: N06075 WSt.-Nr. 2.4951, 2.4630 ASTM: B637 MSRR: 7104 MSRR 7004 ISO: 6202, 6208, 9721, 9723
80A	UNS: N07080 WSt.-Nr. 2.4952 WSt.-Nr. 2.4631 ASTM: B637 MSRR: 7095, 7011, 7013 ASME: SB-637, SAE 3775 (HEV-5)
82	UNS: N06082 ASME: SFA5.14(ERNiCr-3), SFA5.30 (IN82) MSRR: 7095, 7011, 7013 AWS: A5.14
86	MSRR: 7141 BS: HR100
90	UNS: N07090 WSt.-Nr. 2.4969, 2.4632 ASTM: B637 AMS: 5829 MSRR: 7137, 7017 NACE MR-01-75, SAE J775 (HEV-6)
105	WSt.-Nr. 2.4634 ASTM: B637 MSRR: 7017, 7018
200/201	UNS: N02200/N02201 WSt.-Nr. 2.4066/2.4068 ASTM: B160, B161, B162, B163, B366, B725, B829 ASME: SB160, SB161, SB162 SB163 AWS: A5.33 (W-Ni-3)
230	UNS: N06230 WSt.-Nr. 2.4733 ASTM: B435, B572, B619, B622, B626 AMS: 5878, 5891
400	UNS: N04400 WSt.-Nr. 2.4360, 2.4361 ASTM: B127, B163, B164, B165, B366, B564, F96, F467, F468 AMS: 4544, 4579, 4675, 4730, 4731 ASME: SB129, SB163, SB164, SB165, SB564 MIL-T-1368, 23520, N-24106 NACE MR-01-75
556	UNS: R30556 WSt.-Nr. 2.4733 ASTM: B366 (CRH556), B435, B572, B619, B622, B626 AMS: 5874
600	UNS: N06600 WSt.-Nr. 2.4816 ASTM: B163, B166, B167, B168, B366, B516, B517, B564, B757 AMS: 5540, 5580, 5665, 5687, B775, B829, 7232 ASME: SB163, SB166, SB167, SB168, SB564 FEDQQ-W-340 MIL-T-23227, 23228, 2349
601	UNS: N06601 WSt.-Nr. 2.4851 ASTM: B166, B167, B168 AMS: 5715, 5870 ASME: SFA5.4 (ERNiCrFe-11), AW5 5.14 (ERNiCrFe-11)
602 CA®	UNS: N06025 WSt.-Nr. 2.4633 ASTM: B163, B166, B167, B168
617	UNS: N06617 WSt.-Nr. 2.4663a ASTM: B166 AMS: 5887, 5888, 5889 ASME: SB966, SFA5.14 (ERNiCr-CoMo-1)
625 / 625LCF	UNS: N06625/N06626 WSt.-Nr. 2.4856 ASTM: B366, B443, B444, B446, B564, B704, B705, B751 AMS: 5402, 5599, 5581, 5666, 5837, 5879(625LCF), 7490
718	UNS: N07718 WSt.-Nr. 2.4668 ASTM: B637, B670 AMS: 5383, 5589, 5590, 5596, 5597, 5662, 5663, 5664, 5832 ASME: SFA5.14 (ERNiCrFeCr-2) SAE: J775(XEV-I)
718 API	UNS: N07718 WSt.-Nr. 2.4668 NACE MR0175
725	UNS: N07725 ASTM: B805 NACE MR0175 ASME: SFA5.14 (ERNiCrMo-15)
800 H/HT®	UNS: N08810, N8811 WSt.-Nr. 1.4876, 1.4958, 1.4959 ASTM: A240, A358, B407, B163, B407, B408, B409, B514, B564 AMS: 5766 ASME: SB163, SB407, SB408, SB409, SB514, SB564
825	UNS: N08825 WSt.-Nr. 2.4858 ASTM: B163, B423, B424, B425, B564, B704, B705 ASME: SB163, SB423, SB424, SB425 NACE MR-01-75

NICKEL ALLOYS

B2®	UNS: N10665 WSt.-Nr. 2.4617 ASTM: B333, B335, B619, B622, B626, B366 AWS: A5.14 (ERNiMo-7)
C263	UNS: N07263 WSt.-Nr. 2.4650 AMS: 5872, 5872E, 5886, 5966 MSRR: 7035 BS: HR10
C276	UNS: N10276 WSt.-Nr. 2.4819 ASTM: B564, B574, B575, B619, B622, B626, B366, F467, F468 AWS: A5.14 (ERNiMo-4)
K500	UNS: N05500 WSt.-Nr. 2.4375 ASTM: F467, F468 AMS: 4676 MIL-N-24549 NACE MR-01-75
NI-ROD® 55	UNS: W82002 AWS: A5.15(ENiFe-CI)
PE16	MSRR: 7952 BS: HR55, HR207
PK33	MSRR: 7195, 7166 BS: 2HR209:2011
RA330®	UNS: N08330 WSt.-Nr. 1.4886 ASTM: B366, B511, B512, B535, B536, B546, B710, B739 AMS: 5592, 5716
RA333®	UNS: N06333 WSt.-Nr. 2.4608 ASTM: B718, B719, B722, B723, B726 AMS: 5593, 5717
Rene 41	UNS: N07041 WSt.-Nr. 2.4973 AMS: 5399, 5545, 5712, 5713, 5800, 7469
W	UNS: N10004 AMS: 5755, 5786 ASME: SFA5.14 (ERNiMo-3) AWS: A5.14 (ERNiMo-3)
X	UNS: N06002 WSt.-Nr. 2.4665 ASTM: B366, B435, B572, B619, B626, B662 AMS: 3587, 5390, 5536, 5588, 5754, 5798, 7237 ASME: SB435, SB572, SB619, SB622, SB626, SB751, SFA5.14 (ERNiCrMo-2)
X-750	UNS: N07750 WSt.-Nr. 2.4669 ASTM: B637 AMS: 5542, 5582, 5583, 5598, 5668, 5669, 5670, 5671, 5698, 5699, 5747, 5779, 5867, 7246 NACE MR-01-75
WASPALLOY®	UNS: N07001 WSt.-Nr. 2.4654 ASTM: B637 AMS: 5544, 5586, 5704, 5706, 5707, 5709, 5828, 5708

COBALT ALLOYS

188	UNS: R30188 WSt.-Nr. 2.4683 AMS: 5608, 5772, 5801
694 (CM-64)	GE: B58AB42B
FSX414	GE: B50A823 USW: 1745V
L605/25	UNS: R30605 WSt.-Nr. 2.4964 ASTM: F90 AMS: 5537, 5796 Grade F51 Norsok
MAR-M-918	UNS: R30918 AMS: 5814 GE: B50A823 USW: 1745V
TRIBALLOY® T-800®	GE: B50TF193S6

DUPLEX/SUPER DUPLEX ALLOYS

2205	UNS: S31803, S32205 WSt.-Nr. 1.4462 ASTM: A182, A240, A276, A479, A789, A790, A928 Grade F51 Norsok
ZERON® 100	UNS: S32760 WSt.-Nr. 1.4501 ASTM: A182, A240, A276 Grade F55 Norsok

STAINLESS STEEL ALLOYS

13-8	UNS: S13800 WSt.-Nr. 1.4534 ASTM: A564 AMS: 5629
15-5	UNS: S15500 WSt.-Nr. 1.4545 ASTM: A564, A693, A705
17-4	UNS: S17400 WSt.-Nr. 1.4542, 1.4548 ASTM: A693, A564, A705 AMS: 5604, 5622, 5643, 5825
253 MA®	UNS: S30815 WSt.-Nr. 1.4835 ASTM: A182, A240, A276, A312, A479
309/309S	UNS: S30900/S30908 ASTM: (309) A167, A249, A276, A314, A358, A403, A409, A473, A580, (309S) A167, A213, A240, A249, A276, A312, A314, A473, A479, A511, A554, A580, A813, A814 AMS: (309S) 5523, 5574, 5650, 7490 SAE: J405
310S	UNS: S31008, S31009 WSt.-Nr. 1.4845 ASTM: A240, A276, A312, A479 AMS: 5521, 5651
321	UNS: S32100 WSt.-Nr. 1.4541 ASTM: A240, A276, A312, A479 AMS: 5510, 5645
347	UNS: S34709 (347-H), S34710 (347 HFG), S34720/ S34723 (columbium stabilised) ASTM: A182, A213, A240, A249, A271, A312, A336, A376, A403, A430, A479, A813, A814 AMS: 5642 (UNS S34720/ S34723)
410	UNS: S41000 ASTM: A176, A182, A193, A194, A240, A268, A276, A314, A336, A473, A479, A493, A511, A580, A988 AMS: 5504, 5505, 5591, 5613, 5776, 7493 SAE: J405, J412
418 (Greek Ascology)	UNS: S41800 ASTM: A565 AMS: 5508, 5616 SAE: J467
A-286	UNS: S66286 WSt.-Nr. 1.4980, 1.4943, 1.4944 ASTM: A453, A638 AMS: 5525, 5732, 5804, 5526, 5731, 5731, 5734, 5737 BS: HR100, HR51 MSRR: 6531, 6532
AL-6XN®	UNS: N08367 ASTM: A182, A240, A249, A276, A312, A479, B462, B472, B564, B675, B676, B688, B690, B691, B366, B804

ALLOY STEELS

300M / S155	UNS: K44220 ASTM: A579, 646 (300M-8) AMS: 6257, 6417, 6419 4340M MIL-S-8844
4340	UNS: G43400 ASTM: A29, A320, A322, A331, A506, A519, A646, A711, A752, A829 AMS: 6359, 6409, 6414, 6415, 6454
AerMet® 100	UNS: K92580 AMS: 6532

TITANIUM ALLOYS

Ti 6-2-4-2	UNS: R54620 WSt.-Nr. 3.7194 AMS: 4919, 4952, 4975, 4976, 4979 MIL-T-9046, MIL-T-9047
Ti Gr2	UNS: R50400 WSt.-Nr. 3.7034 / 3.7035 ASTM: B265, B337, B338, B348, B363, B381 AMS: 4901, 4921, T-9046B, T-9047A BS: S99
Ti Gr4	UNS: R50700 WSt.-Nr. 307064, 3.7065 ASTM: B265, B348, B381, F67, F467, F468 AMS: 4902F, 4941C, 4942C, 4951F BS: S156 1976, BS S82 MIL-T-81536, MIL-83142
Ti Gr5 6AL-4V	UNS: R56400 WSt.-Nr. 3.7164 / 3.7165 ASTM: B265, B348, B381, B367 AMS: 4905, 4906, 4911, 4920, 4928, 4930, 4931, 4934, 4935, 4954, 4965, 4967, 4993 AW5A5.16 (ERTi-5)

Table of Alloys

NICKEL ALLOYS

RA330®											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N08330					W.Nr. 1.4886						√	√	√	√				√
	Ni	Cr	Cu	C	Mn	Si	P	S	Fe									
MIN	34	18	0	0	0	1	0	0	BAL									
MAX	37	20	1	0.08	2	1.5	0.03	0.03	BAL									

RA333®											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06333					W.Nr. 2.4608								√					√
	Ni	Cr	Mo	W	Co	C	Mn	Si	Fe									
MIN	44	24	2.5	2.5	2.5	0	0	0.75	BAL									
MAX	47	27	4	4	4	0.08	2	1.5	BAL									

602CA®												Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06025					W.Nr. 2.4633							√	√	√					√
	Ni	Cr	Cu	C	Mn	Si	Y	Fe	Ti	Al	Zr								
MIN	BAL	24	0	0.15	0	0	0.05	8	0.1	1.8	0.01								
MAX	BAL	26	0.1	0.25	0.15	0.5	0.12	11	0.2	2.4	0.1								

600											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06600					W.Nr. 2.4816						√	√	√	√	√			√
	Ni	Cr	Cu	C	Mn	Si	S	Fe										
MIN	72	14	0	0	0	0	0	6										
MAX		17	0.5	0.15	1	0.5	0.015	10										

601											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06601					W.Nr. 2.4851						√	√	√	√				
	Ni	Cr	Cu	C	Mn	Si	S	Fe	Al									
MIN	58	21	0	0	0	0	0	BAL	1									
MAX	63	25	1	0.1	1	0.5	0.015	BAL	1.7									

800H/HT®												Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N08810 - UNS N08811					W.Nr. 1.4876, 1.4958 - 1.4959							√	√	√	√	√	√		
	Ni	Cr	Cu	C	Mn	Si	P	S	Fe	Al	Ti	Al +Ti							
MIN	30	19	0	0.06	0	0	0	0	39.5	0.15	0.15	0.85							
MAX	35	23	0.75	0.1	1.5	1	0.045	0.015		0.6	0.6	1.2							

36											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS K93600 - UNS K93603					W.Nr. 1.3912						√	√	√					√
	Ni	Cr	Mo	Cu	C	Mn	Si	P	S	Fe								
MIN	35	0	0	0	0	0	0	0	0	BAL								
MAX	37	0.5	0.5	0.5	0.1	0.6	0.35	0.025	0.025	BAL								

NICKEL ALLOYS

20											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N08020				W.Nr. 2.4660							√	√	√						
	Ni	Cr	Mo	Cu	C	Mn	Si	P	S	Fe	Nb+Ta								
MIN	32.5	19	2	3	0	0	0	0	0	BAL	8 x C								
MAX	35	21	3	4	0.06	2	1	0.035	0.035	BAL	1								

22											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N06022				W.Nr. 2.4602							√	√	√	√	√	√	√	√	√
	Ni	Cr	Mo	W	Co	C	Mn	Si	P	S	Fe	V							
MIN	BAL	20	12.5	2.5	0	0	0	0	0	0	2	0							
MAX	BAL	22.5	14.5	3.5	2.5	0.015	0.5	0.08	0.02	0.02	6	0.35							

C276											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N10276				W.Nr. 2.4819							√	√	√	√	√	√	√	√
	Ni	Cr	Mo	W	Co	C	Mn	Si	P	S	Fe	V						
MIN	BAL	14.5	15	3	0	0	0	0	0	0	4	0						
MAX	BAL	16.5	17	4.5	2.5	0.01	1	0.08	0.04	0.03	7	0.35						

59											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06059				W.Nr. 2.4605							√	√	√	√	√	√		
	Ni	Cr	Mo	Co	C	Mn	Si	P	S	Fe	Al	Cu						
MIN	BAL	22	15	0	0	0	0	0	0	0	0.1	0						
MAX	BAL	24	16.5	0.3	0.01	0.5	0.1	0.015	0.005	1.5	0.4	0.50						

B2®											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N10665				W.Nr. 2.4617							√							
	Ni	Cr	Mo	Co	C	Mn	Si	P	S	Fe								
MIN	BAL	0	26	0	0	0	0	0	0	0								
MAX	BAL	1	30	1	0.02	1	0.1	0.04	0.03	2								

200/201											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N02200 UNS N02201				W.Nr. 2.4066,2.4068							√	√	√	√	√	√		
	Ni	Cu	Mn	Si	S	Fe	C											
MIN	99	0	0	0	0	0	0											
MAX		0.25	0.35	0.35	0.01	0.40	0.15											

NICKEL ALLOYS

400											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N04400				W.Nr. 2.4360							√	√	√	√	√	√		
	Ni	Cu	C	Mn	Si	S	Fe											
MIN	63	28	0	0	0	0	0											
MAX	70	34	0.3	2	0.5	0.024	2.5											

K500											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N05500				W.Nr. 2.4375							√							
	Ni	Cu	C	Mn	Si	S	Fe	Ti	Al									
MIN	63	27	0	0	0	0	0	0.35	2.3									
MAX	70	33	0.25	1.5	0.5	0.01	2	0.85	3.15									

625											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06625				W.Nr. 2.4856							√	√	√	√			√	√
	Ni	Cr	Mo	Co	C	Mn	Si	P	S	Fe	Ti	Al	Nb+Ta					
MIN	58	20	8	0	0	0	0	0	0	0	0	0	3.15					
MAX		23	10	1	0.1	0.5	0.5	0.015	0.015	5	0.4	0.4	4.15					

625LCF (DDQ/HP)											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06626				W.Nr. 2.4856								√						
	Ni	Cr	Mo	Co	C	Mn	Si	P	S	Fe	Ti	Al	Nb+Ta	N				
MIN	58	20	8	0	0	0	0	0	0	0	0	0	3.15	0				
MAX		23	10	1	0.03	0.5	0.15	0.015	0.015	5	0.4	0.4	4.15	0.02				

718											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N07718				W.Nr. 2.4668							√	√	√					√
	Ni+Co	Cr	Mo	Cu	Co	C	Mn	Si	P	S	Fe	Ti	Al	Nb+Ta				
MIN	50	17	2.8	0	0	0	0	0	0	0	BAL	0.65	0.2	4.75				
MAX	55	21	3.3	0.3	1	0.08	0.35	0.35	0.015	0.015	BAL	1.15	0.8	5.5				

718 API											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N07718				W.Nr. 2.4668							√						√	
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	P	S	Fe	Ti	Al	Nb+Ta	B	Se	Pb	Mg
MIN	50	17	2.8	0	0	0	0	0	0	0	BAL	0.8	0.4	4.87	0	0	0	0
MAX	55	21	3.3	0.23	1	0.045	0.35	0.35	0.01	0.01	BAL	1.15	0.6	5.2	50ppm	0.0005 ppm	1000 ppm	0.0006 ppm

725											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N07725											√							
	Ni	Cr	Mo	C	Mn	Si	P	S	Fe	Ti	Al	Nb						
MIN	55	19	7	0	0	0	0	0	BAL	1	0	2.75						
MAX	59	22.5	9.5	0.03	0.35	0.2	0.015	0.01	BAL	1.7	0.35	4						

NICKEL ALLOYS

825											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N08825				W.Nr. 2.4858							√	√							
	Ni	Cr	Mo	Cu	C	Mn	Si	P	S	Fe	Ti	Al							
MIN	38	19.5	2.5	1.5	0	0	0	0	0	BAL	0.6	0							
MAX	46	23.5	3.5	3	0.05	1	0.5	0.02	0.01		1.2	0.2							

925											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N09925											√							
	Ni	Cr	Mo	Cu	C	Mn	Si	S	Fe	Ti	Al	Nb						
MIN	42	19.5	2.5	1.5	0	0	0	0	22	1.9	0.1	0						
MAX	46	22.5	3.5	3	0.03	1	0.5	0.03	BAL	2.4	0.5	0.5						

X-750											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N07750				W.Nr. 2.4669							√	√						
	Ni	Cr	Cu	C	Mn	Si	S	Fe	Ti	Al	Nb+Ta	Co						
MIN	70	14	0	0	0	0	0	5	2.25	0.40	0.70	0						
MAX		17	0.5	0.08	1	0.5	0.01	9	2.75	1.00	1.20	1.00						

230											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06230				W.Nr. 2.4733								√	√					√
	Ni	Cr	Mo	W	Cu	Co	C	Mn	Si	P	S	Fe	Ti	Al	La	B		
MIN	47	20	1	13	0	0	0.05	0.3	0.25	0	0	0	0	0.2	0.005	0		
MAX	65	24	3	15	0.5	5	0.15	1	0.75	0.03	0.015	3	0.1	0.5	0.05	0.015		

75											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06075				W.Nr. 2.4951, 2.4630							√	√						
	Ni	Cr	Cu	C	Mn	Si	Fe	Ti										
MIN	BAL	18	0	0.08	0	0	0	0.2										
MAX	BAL	21	0.5	0.15	1	1	5	0.6										

80A											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N07080				W.Nr. 2.4952, 2.4631							√							
	Ni	Cr	Cu	Co	C	Mn	Si	S	Fe	Ti	Al	B	Zr					
MIN	BAL	18	0	0	0	0	0	0	0	1.8	1	0	0					
MAX	BAL	21	0.2	2	0.1	1	1	0.015	3	2.7	1.8	0.008	0.15					

86											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
											√							
	Ni	Mo	C	Cr	Ce													
MIN	65	10	0	25	0													
MAX			0.05		0.03													

NICKEL ALLOYS

90											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N07090				W.Nr. 2.4632, 2.4969							√								
	Ni	Cr	Cu	Co	C	Mn	Si	S	Fe	Ti	Al	Zr	B	Pb					
MIN	BAL	18	0	15	0	0	0	0	0	2	1	0	0	0					
MAX	BAL	21	0.2	21	0.12	1	1	0.015	1.5	3	2	0.15	0.02	0.002					

105											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
				W.Nr. 2.4634							√								
	Ni	Cr	Mo	Cu	C	Mn	Si	S											
MIN	BAL	14	4.5	0	0	0	0	0											
MAX	BAL	15.7	5.5	0.2	0.17	1	0.1	0.01											

617											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06617				W.Nr. 2.4856							√	√	√					
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	S	Fe	Ti	Al	B					
MIN	44.5	20	8	0	10	0.05	0	0	0	0	0	0.8	0					
MAX		24	10	0.5	15	0.15	1	1	0.015	3	0.6	1.5	0.006					

PE11											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
											√							
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	S	Fe	Ti	Al	Zr	B				
MIN	37	17	4.75	0	0	0.03	0	0	0	BAL	2.2	0.7	0.02	0				
MAX	41	19	5.75	0.5	1	0.08	0.2	0.5	0.015	BAL	2.5	1	0.05	0.001				

PE16											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
											√							
	Ni+Co	Cr	Mo	Cu	Co	C	Mn	Si	S	Fe	Ti	Al	Zr	B				
MIN	42	15.5	2.8	0	0	0.04	0	0	0	BAL	1.1	1.1	0.02	0				
MAX	45	17.5	3.8	0.5	2	0.08	0.2	0.5	0.015	BAL	1.3	1.3	0.04	0.005				

PK33											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
											√	√						
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	S	Fe	Ti	Al	Zr					
MIN	BAL	16	5	0	12	0	0	0	0	0	1.5	1.7	0					
MAX	BAL	20	9	0.2	16	0.07	0.5	0.5	0.015	1	3	2.5	0.06					

X											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N06002				W.Nr. 2.4665							√	√	√					√
	Ni	Cr	Mo	W	Cu	Co	C	Mn	Si	P	S	Fe	Ti	Al	B			
MIN	BAL	20.5	8	0.2	0	0.5	0.05	0	0	0	0	17	0	0	0			
MAX	BAL	23	10	1	0.5	2.5	0.15	1	1	0.04	0.03	20	0.15	0.5	0.01			

NICKEL ALLOYS

C263											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N07263				W.Nr. 2.4650							√	√							
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	P	S	Fe	Ti	Al	Al+Ti	B	Bi	Ag	Pb	
MIN	BAL	19	5.6	0	19	0.01	0	0	0	0	0	1.9	0.3	2.4	0	0	0	0	
MAX	BAL	21	6.1	0.2	21	0.08	0.6	0.4	0.015	0.007	0.7	2.4	0.6	2.8	0.005	0.0001	0.0005	0.002	

WASPALLOY®											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N07001				W.Nr. 2.4654							√	√							√
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	P	S	Fe	Ti	Al	B					
MIN	BAL	18	3.5	0	12	0.02	0	0	0	0	0	2.75	1.2	0.003					
MAX	BAL	21	5	0.1	15	0.1	0.1	0.15	0.015	0.015	2	3.25	1.6	0.01					

Rene 41											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS N07041				W.Nr. 2.4973							√	√							√
	Ni	Cr	Mo	Co	C	Fe	Ti	Al	B	Mn	Si	S	Cu						
MIN	BAL	18	9	10	0	0	3	1.4	0.003	0	0	0	0						
MAX	BAL	20	10.5	12	0.12	5	3.3	1.8	0.01	0.1	0.50	0.015	0.50						

COBALT ALLOYS

L605/25											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS R30605				W.Nr. 2.4964								√							√
	Ni	Cr	W	Co	C	Mn	Si	P	S	Fe									
MIN	9	19	14	BAL	0.05	1	0	0	0	0									
MAX	11	21	16	BAL	0.15	2	0.4	0.04	0.03	3									

188											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS R30188				W.Nr. 2.4683							√	√							√
	Ni	W	Co	C	Mn	Fe	Cr	La	B	Si	P	S							
MIN	20	13	BAL	0.05	0	0	20.0	0.02	0	0.2	0	0							
MAX	24	16	BAL	0.15	1.25	3	24.0	0.12	0.015	0.5	0.02	0.015							

DUPLEX / SUPER DUPLEX

2205		F51									Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS S32205		UNS S31803 W.Nr. 1.4462									√	√	√	√	√	√	√	√	√
	Ni	Cr	Mo	C	N	Mn	Si	P	S	Fe									
MIN	4.5	22	3	0	0.14	0	0	0	0	BAL									
MAX	6.5	23	3.5	0.03	2	2	1	0.03	0.02	BAL									

DUPLEX / SUPER DUPLEX

ZERON® 100 / UNS S32760				F55							Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S32760				W.Nr. 1.4496,1.4501							√	√	√	√	√	√	√	√
	Ni	Cr	Mo	W	Cu	C	N	Mn	Si	P	S	Fe						
MIN	6	24	3	0.5	0.5	0	0.2	0	0	0	0	BAL						
MAX	8	26	4	1	1	0.03	0.3	1	1	0.03	0.01	BAL						

STAINLESS STEEL ALLOYS

AL-6XN®											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS N08367											√	√	√	√	√	√	√	√
	Ni	Cr	Mo	Cu	C	N	Mn	Si	P	S	Fe							
MIN	23.5	20	6	0	0	0.18	0	0	0	0	BAL							
MAX	25.5	22	7	0.75	0.03	0.25	2	1	0.04	0.03	BAL							

A-286											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S66286											√	√						
W.Nr. 1.4943,1.4944,1.4980																		
	Ni	Cr	Mo	Co	C	Mn	Si	P	S	Fe	Ti	Al	V	B				
MIN	24	13.5	1	0	0	0	0	0	0	BAL	1.9	0	0.1	0.003				
MAX	27	16	1.5	1	0.08	2	1	0.025	0.025	BAL	2.35	0.35	0.5	0.01				

PH13-8Mo											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S13800											√							
W.Nr. 1.4534																		
	Ni	Cr	Mo	C	N	Mn	Si	P	S	Fe	Al							
MIN	7.5	12.25	2	0	0	0	0	0	0	BAL	0.9							
MAX	8.5	13.25	2.5	0.05	0.1	0.2	0.1	0.01	0.008	BAL	1.35							

15-5PH											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S15500											√		√					
W.Nr. 1.4545																		
	Ni	Cr	Cu	C	Mn	Si	P	S	Fe	Nb+Ta								
MIN	3.5	14	2.5	0	0	0	0	0	BAL	0.15								
MAX	5.5	15.5	4.5	0.07	1	1	0.04	0.03	BAL	0.45								

17-4PH											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S17400											√	√	√					√
W.Nr. 1.4542-4548																		
	Ni	Cr	Mo	Cu	C	Mn	Si	P	S	Fe	Nb+Ta							
MIN	3	15	0	3	0	0	0	0	0	BAL	5 x C							
MAX	5	17.5	0.50	5	0.07	1.0	1	0.04	0.03	BAL	0.45							

310S											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S31008 -UNS S31009											√	√	√	√				
W.Nr. 1.4845																		
	Ni	Cr	Mo	Cu	C	Mn	Si	P	S	Fe								
MIN	19	24	0	0	0	0	0	0	0	BAL								
MAX	22	26	0.75	0.5	0.08	2	0.75	0.045	0.03	BAL								

STAINLESS STEEL ALLOYS

321											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S32100				W.Nr. 1.4541							√	√	√	√	√	√		
	Ni	Cr	Mo	Cu	C	N	Mn	Si	P	S	Fe	Ti						
MIN	9	17	0	0	0	0	0	0.25	0	0	BAL	5 × (C+N)						
MAX	12	19	0.75	0.75	0.08	0.1	2	1	0.04	0.03	BAL	0.7						

253MA®											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS S30815				W.Nr. 1.4835							√	√	√	√	√	√	√	√
	Ni	Cr	C	N	Mn	Si	P	S	Fe	Ce								
MIN	10	20	0.05	0.14	0	1.4	0	0	BAL	0.03								
MAX	12	22	0.1	0.2	0.8	2	0.04	0.03	BAL	0.08								

Maraging 350											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS K93160				W.Nr. 1.6356							√							
	Ni	Cr	Mo	Cu	Co	C	Mn	Si	P	S	Ti	Al						
MIN	18	0	4.6	0	11.5	0	0	0	0	0	1.3	0.05						
MAX	19	0.5	5.2	0.5	12.5	0.03	0.1	0.1	0.01	0.01	1.6	0.15						

ALLOY STEELS

AeroMet® 100											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS K92580											√							
	Ni	Cr	Mo	Co	C	Fe												
MIN	11	2.9	1.1	13	0.21	BAL												
MAX	12	3.3	1.3	14	0.25	BAL												

300M/S155											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
											√							
	Ni	Cr	Mo	C	Mn	Si	P	S	Fe									
MIN	3.5	1.6	0.4	0.39	0.6	1.5	0	0	BAL									
MAX	4.5	2	0.6	0.44	0.9	1.8	0.015	0.01	BAL									

S99G Steel											Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
											√							
	Ni	Cr	Mo	C	Mn	Si	P	S	Al	Fe								
MIN	2.3	0.5	0.45	0.36	0.45	0.1	0	0	0.015	BAL								
MAX	2.8	0.8	0.65	0.44	0.7	0.35	0.025	0.02	0.05	BAL								

TITANIUM ALLOYS

Ti Grade 2										Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS R50400					W.Nr. 3.7034,3.7035					√	√	√	√	√	√			
	C	N	O	H	Fe	Ti												
MIN	0	0	0	0	0	BAL												
MAX	0.08	0.03	0.25	0.015	0.3	BAL												

Ti Grade 4										Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS R50700					W.Nr. 3.7065					√								√
	C	N	O	H	Fe	Ti												
MIN	0	0	0	0	0	BAL												
MAX	0.08	0.05	0.40	0.015	0.5	BAL												

Ti Grade 5					Ti 6AL-4V					Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire	
UNS R56400					W.Nr. 3.7164-7165					√	√	√						√
	C	N	O	H	Fe	Ti	Al	V										
MIN	0	0	0	0	0	BAL	5.5	3.5										
MAX	0.08	0.05	0.2	0.125	0.4	BAL	6.75	4.5										

Ti 6-2-4-2												Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS R56421					W.Nr. 3.7164							√							
	Mo	C	N	Si	Y	O	H	Fe	Ti	Al	Sn	Zr							
MIN	1.8	0	0	0.06	0	0	0	0	BAL	5.5	1.8	3.6							
MAX	2.2	0.05	0.05	0.1	0.005	0.12	0.015	0.25	BAL	6.5	2.2	4.4							

Ti 6-2-4-6												Bar	Sheet	Plate	Pipe	Fittings	Flanges	Billet	Wire
UNS R56260					W.Nr. 3.7164							√							
	Mo	C	N	O	H	Fe	Ti	Al	Sn	Zr									
MIN	5.5	0	0	0	0	0	BAL	5.5	1.75	3.5									
MAX	6.5	0.04	0.04	0.15	0.0125	0.15	BAL	6.5	2.25	4.5									

Processing Capabilities

By investing in the most up-to-date metal cutting technology and techniques we offer an unrivalled metal cutting and profiling service at our state of the art facilities.



Bar Sawing

NeoNickel produces high quality, high tolerance square-cut bars, compliant to customer specifications. All cut pieces are deburred, marked and fully traceable.

Laser Cutting

High quality, high tolerance laser-cut parts, compliant to customer specifications. All cut pieces are deburred, marked and fully traceable.



Virtek® Laser Inspection

A rapid inspection system to measure the accuracy of 2D parts. Our system captures more than 500 data points per second, and is accurate to within 0.05mm.

Plate Sawing & Shearing

Produces high quality, straight-cut parts, compliant to customer specifications. All cut pieces are deburred, marked and fully traceable.



Waterjet Cutting

High tolerance waterjet-cut parts, compliant to customer specifications. All cut pieces are marked and fully traceable.



Laboratory

We have unique facilities for material analysis and testing, metallurgical evaluation and corrosion testing.

We offer the following as a complimentary service to our customers:

- Process & Application Review
- Lab Testing
- Failure Analysis
- Sampling & Data Gathering
- Formal Reports

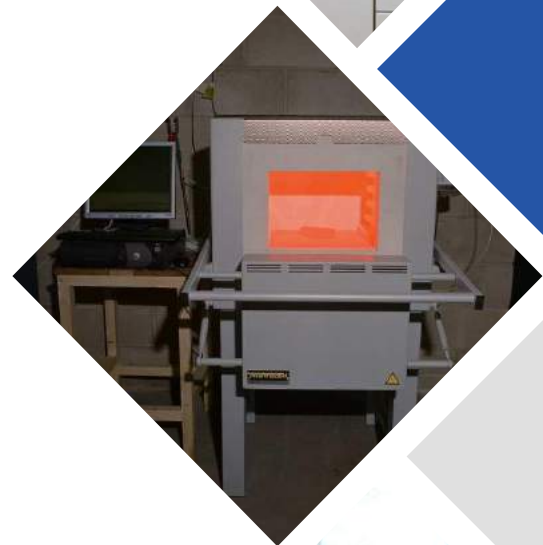
Metallography

Cutting, hot mounting, grinding, polishing, chemical & electrolytic etching and engraving equipment used to complete metallographic preparations.



Heat Treatment Furnace

To complete laboratory based heat treating activities useful in research.



Quality Assurance Services

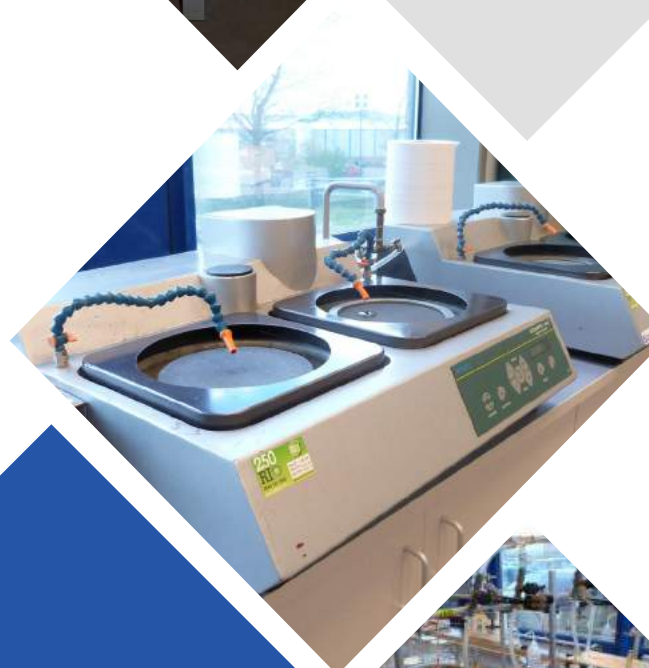
Fully portable device for positive material identification by XRP technique. LECO analyser for completing hydrogen analysis in weld wire.

Microscopy

Optical microscopes and scanning electron microscopy with EDX analysis.

Corrosion Testing

Standard corrosion testing on ferrous and non ferrous alloys according to internally recognised standards e.g ASTM (G48, G28, A262, etc), ISO or EFC.



Mechanical Testing

Macro/micro hardness using Rockwell, Vickers and Brinell devices.

Stress Corrosion Testing

Slow strain rate testing rig, 2L and 5L autoclave corrosion testing.



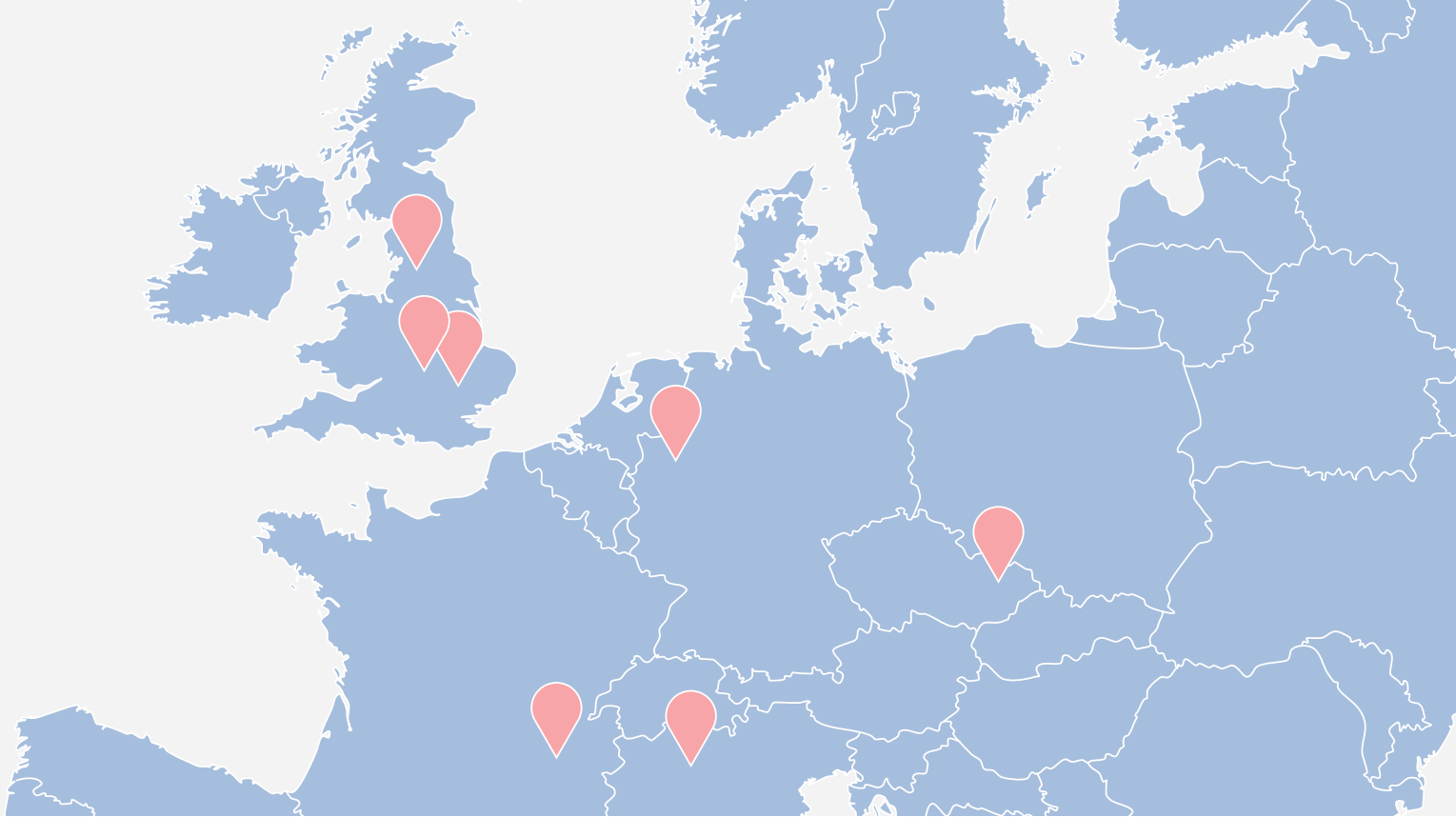
Our Quality Approvals

We have unique facilities for material analysis and testing, metallurgical evaluation and corrosion testing.



AS 9100 C BS EN 9100:2009
 AS 9120 A BS EN 9120:2012
 AS 9100 C BS EN ISO
 AS 9120 A BS EN ISO

BS OHSAS 18001:2007
 BS EN ISO 9001:2008
 ISO 14001:2015



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