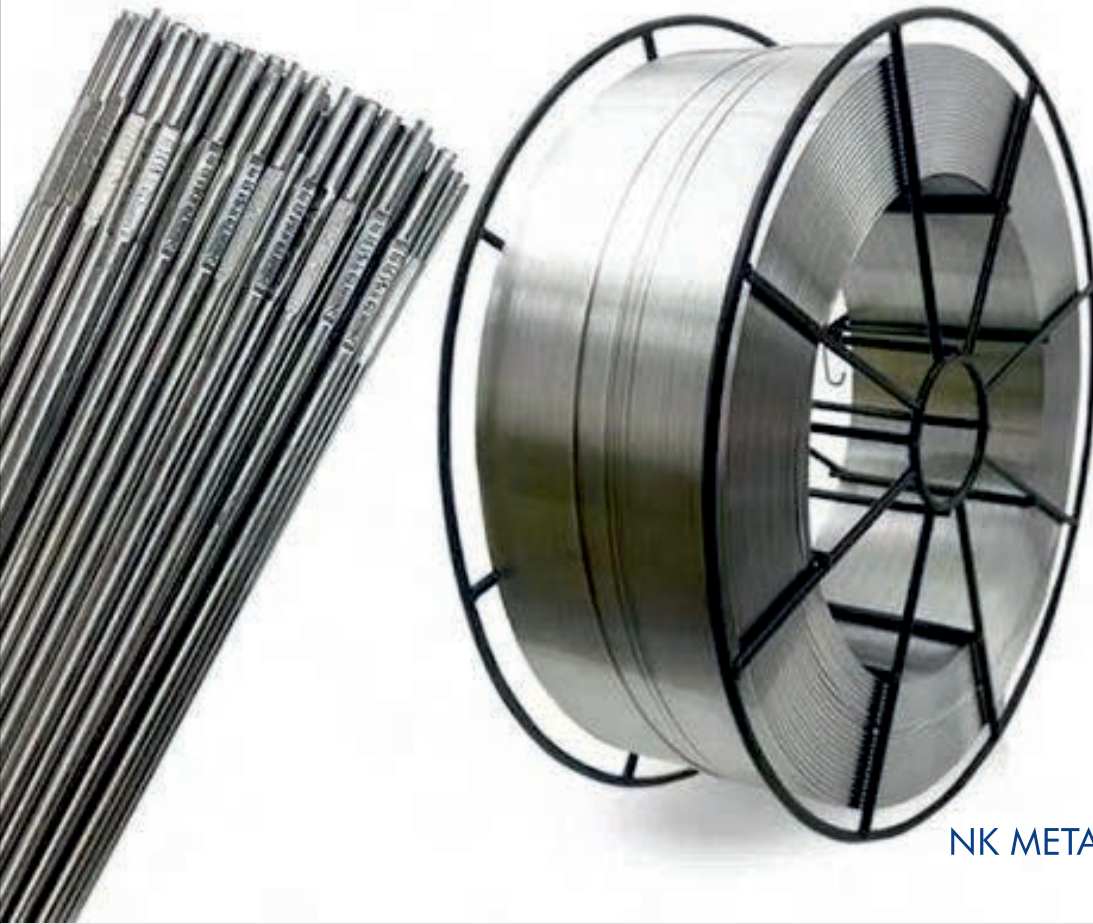


MI WIRES

The Heartbeat of Welding &
Wire Mesh Industry

METAL IMPEX
NK METAL IMPEX AND ALLOYS LLP

SERVICES

We stock and supply all forms and grades of stainless steel and nickel alloy wires including TIG, MIG, SAW, Core wires-coil form and cut-length for manufacturing electrodes all over India.

We can provide customized chemical compositions within different grades and forms based on the quantities you require. We have healthy relations with manufacturers across India who supply us with raw materials adhering to our high quality standards.

We supply stainless steel wires and metal powder of different grade, chemistry and form in large quantities within shortest possible time. We have built our presence and position in fabrication industry, chemical industry, industrial food processing equipment, pressure vessels, automotive, oil & gas, fertilizers, railways, ship building, nuclear power projects and many others.

With our commitment to excellence, we have become the preferred single source of supply for all their stainless steel and metal powder requirements for our customers. We provide immediate delivery, as all products are in stock, round the clock.



MI WIRES

Stainless Steel Wires



The MIG wires are supplied in bright as well as in matte finish and the wire is specially cleaned to avoid weld contamination. Stainless steel MIG wires can be supplied in plastic spool. The wires have suitable cast / helix to ensure perfect "Pay-Off".

SIZE (mm)	SIZE (inch)	Fraction
0.80	0.030"	—
0.90	0.035"	—
1.00	0.040"	—
1.20	0.045"	—
1.60	0.062"	1/16"

Plastic Spool SD300



12.5kgs/ 15kgs/ 20kgs
25lbs/ 30 lbs

Plastic Spool SD200



5kgs
10 lbs

Plastic Spool SD100

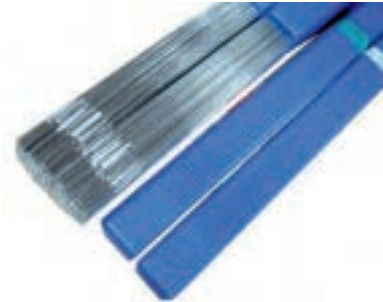


1 kgs
2 lbs



We manufacture high quality stainless steel TIG wires in 36" & 1,000 mm cutlengths, with embossing on both sides above 1.0 mm wires as per customer's requirements. TIG wires are supplied in bright and clean finish to avoid all possible contamination. No oil is used in processing of TIG wires.

SIZE (mm)	SIZE (inch)	Fraction
1.00	0.040"	—
1.20	0.045"	—
1.60	0.062"	1/16"
2.00	0.078"	—
2.40	0.094"	3/32"
3.20	0.125"	1/8"
4.00	0.156"	5/32"



Plastic Tubes



5kgs
10 lbs

10 kgs
20 lbs





We manufacture clean & layer wound wire for submerged arc welding from 1.60 mm (0.062") to 5.00 mm (0.187") in various grades in bright as well as in matte finish. The wires tensile strength, helix and cast diameter is engineered to precise tolerance to ensure perfect "Pay-Off".

SIZE (mm)	SIZE (inch)	Fraction
1.60	0.062"	1/16"
2.00	0.078"	—
2.40	0.094"	3/32"
3.20	0.125"	1/8"
4.00	0.156"	5/32"
5.00	0.187"	3/16"

Metal Ring Box Packing



25kgs
20 lbs



MI WIRES



We manufacture high quality stainless steel wire for welding electrodes in sizes 2.00 mm (0.078") -5.00 mm (0.187") in bright as well as in matte finish.

The stainless steel wire for welding electrodes are supplied in coil as well as in cut length as per AWS, DIN, BS, JIS and other equivalent international standards or as per the customer's requirement.

The commonly manufactured grades are AWS ER307, ER308, ER308L, ER309, ER309L, ER309LMo, ER310, ER312, ER316, ER316L, ER317L, ER318, ER347, ER430 with low and normal silicon contents.

SIZE (mm)	SIZE (inch)	Fraction
2.00	0.078"	—
2.40	0.094"	3/32"
2.50	0.098"	—
3.15	0.124"	—
3.20	0.125"	1/8"
4.00	0.156"	5/32"
5.00	0.187"	3/16"

Coil Form / Cut Length



As per customer's request



MI WIRES

WELDING FILLER METALS

Welding Alloys

Stainless Steel :

MIG

TIG

SAW

GRADE	Nearest to EN 12072:2000 14343:2007	BRITISH Bs2901 PTS	USA AWS A5.9	GERMAN DIN 8556
ER 307	18 8 Mn	307S94	ER 307	WK. 1.4370
ER 307 Si	18 8 Mn	307S98	ER 307 Si	WK. 1.4370
ER 308	19 9	308S96	ER 308	WK. 1.4302
ER 308H	—	—	ER 308H	WK. 1.4302
ER 308L	19 9 L	308S92	ER 308L	WK. 1.4316
ER 308LSi	19 9 LSi	308S93	ER 308LSi	WK. 1.4316
ER 309H	22 12 H	309S94	ER 309H	WK. 1.4829
ER 309L	23 12 L	309S92	ER 309L	WK. 1.4332
ER 309Nb	—	—	ER 309Nb	—
ER 309LNb	—	—	ER 309LNb	—
ER 309 LSi	23 12 LSi	309S93	ER 309 LSi	WK. 1.4332
ER 309 Mo	23 12 2L	~309S95	ER 309 Mo	WK. 1.4459
ER 310	25 20	310S94	ER 310	WK. 1.4842
ER 312	29 9	312S94	ER 312	WK. 1.4337
ER 316	19 12 3	—	ER 316	WK. 1.4403
ER 316L	19 12 3 L	316S92	ER 316L	WK. 1.4430



MI WIRES

GRADE

Nearest to EN

12072:2000 14343:2007

BRITISH

Bs2901 PTS

USA

AWS A5.9

GERMAN

DIN 8556

ER 316LSi

19 12 3 LSi

307S94

ER 316LSi

WK. 1.4430

ER 317L

19 13 4 L

307S98

ER 317L

WK. 1.4438

ER 318

19 12 3 Nb

308S96

ER 318

WK. 1.4576

ER 320LR

—

—

ER 320LR

—

ER 330

—

308S92

ER 330

—

ER 330Nb

—

308S93

ER 330Nb

—

ER 347

19 9 Nb

309S94

ER 347

WK. 1.4551

ER 347Si

19 9 Nb Si

309S92

ER 347Si

WK. 1.4551

ER 385 [904L]

—

—

ER 385 [904L]

—

ER 409Nb

—

—

ER 409Nb

—

ER 410

—

309S93

ER 410

—

ER 410NiMo

—

~309S95

ER 410NiMo

—

ER 430

17

310S94

ER 430

WK. 1.4015

ER 430Nb

—

312S94

ER 430Nb

—

ER 430LNb

—

—

ER 430LNb

—

ER 2209

—

316S92

ER 2209

—



MI WIRES

Welding Alloys

Stainless Steel : **CORE** Welding for Electrodes

GRADE	Nearest to EN 12072:2000 14343:2007	BRITISH Bs2901 PTS	USA AWS A5.9	GERMAN DIN 8556
ER 308H	—	—	ER 308H	WK. 1.4302
ER 308L	19 9 L	308S92	ER 308L	WK. 1.4316
ER 309H	22 12 H	309S94	ER 309H	WK. 1.4829
ER 309L	23 12 L	309S92	ER 309L	WK. 1.4332
ER 309LMo	23 12 2L	309S95	ER 309LMo	WK. 1.4459
ER 310	25 20	310S94	ER 310	WK. 1.4842
ER 312	29 9	312S94	ER 312	WK. 1.4337
ER 316L	19 12 3 L	316S92	ER 316L	WK. 1.4430
ER 317L	18 15 3 L	317S92	ER 317L	WK. 1.4438
ER 320LR	—	—	ER 320LR	—
ER 330	—	—	ER 330	—
ER 347	19 9 Nb	347S96	ER 347	WK. 1.4551
ER 385 [904L]	—	—	ER 385 [904L]	—
ER 410	—	—	ER 410	—
ER 410NiMo	—	—	ER 410NiMo	—
ER 2209	—	—	ER 2209	—



MI WIRES

CHEMICAL COMPOSITION

AWS Classifications	UNS Number	Composition, Wt %									Other Elements	
		C	Cr	Ni	Mo	Mn	Si	P	N	Cu	Element	Amount
STAINLESS STEEL												
ER 307	S30780	0.04-0.14	19.5-22.0	8.0-10.7	0.5-1.5	3.3-4.75	0.30-0.65	0.03	-	0.75	-	-
ER 308	S30880	0.08	19.5-22.0	9.0-11.0	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 308H	S30880	0.04-0.08	19.5-22.0	9.0-11.0	0.50	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 308L	S30883	0.03	19.5-22.0	9.0-11.0	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 308Si	S30881	0.08	19.5-22.0	9.0-11.0	0.75	1.0-2.5	0.65-1.00	0.03	-	0.75	-	-
ER 308LSi	S30888	0.03	19.5-22.0	9.0-11.0	0.75	1.0-2.5	0.65-1.00	0.03	-	0.75	-	-
ER 309	S30980	0.12	23.0-25.0	12.0-14.0	0.15	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 309L	S30983	0.03	23.0-25.0	12.0-14.0	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 309Mo	S30982	0.12	23.0-25.0	12.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 309LMo	S30986	0.03	23.0-25.0	12.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 309Si	S30981	0.12	23.0-25.0	12.0-14.0	0.75	1.0-2.5	0.65-1.00	0.03	-	0.75	-	-
ER 309LSi	S30988	0.03	23.0-25.0	12.0-14.0	0.75	1.0-2.5	0.65-1.00	0.03	-	0.75	-	-
ER 310	S31080	0.08-0.15	25.0-28.0	20.0-22.5	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 312	S31380	0.15	28.0-32.0	8.0-10.5	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 316	S31680	0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 316H	S31680	0.04-0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 316L	S31683	0.03	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 316Si	S31681	0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.65-1.00	0.03	-	0.75	-	-
ER 316LSi	S31688	0.03	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.65-1.00	0.03	-	0.75	-	-
ER 317	S31780	0.08	18.5-20.5	13.0-15.0	3.0-4.0	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 317L	S31783	0.03	18.5-20.5	13.0-15.0	3.0-4.0	1.0-2.5	0.30-0.65	0.03	-	0.75	Cb ^B	8xCmin/1.0max
ER 318	S31980	0.08	18.0-20.0	11.0-14.0	2.0-3.0	1.0-2.5	0.30-0.65	0.03	-	0.75	Cb ^B	8xCmin/1.0max
ER 320	N0S021	0.07	19.0-21.0	32.0-36.0	2.0-3.0	2.5	0.60	0.03	-	3.4-4.0	Cb ^B	8xCmin/0.40max
ER 320LR	N0S022	0.025	19.0-21.0	32.0-36.0	2.0-3.0	1.5-2.5	0.15	0.015	-	3.4-4.0	Ti	9xCmin/1.0max
ER 321	S32180	0.08	18.5-20.5	9.0-10.5	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-
ER 330	N08331	0.18-0.25	15.0-17.0	34.0-37.0	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	-	-



MI WIRES

AWS Classifications	UNS Number	Composition,Wt %									Other Elements	
		C	Cr	Ni	Mo	Mn	Si	P	N	Cu	Element	Amount
STAINLESS STEEL												
ER 347	S34780	0.08	19.0-21.5	9.0-11.0	0.75	1.0-2.5	0.30-0.65	0.03	-	0.75	Cb ^g	10xCmin/1.0max
ER 347Si	S34788	0.08	19.0-21.5	9.0-11.0	0.75	1.0-2.5	0.65-1.00	0.03	-	0.75	Cb ^g	10xCmin/1.0max
ER 383	N08028	0.025	26.5-28.5	30.0-33.0	3.2-4.2	1.0-2.5	0.50	0.02	-	0.70-1.5	-	-
ER 385	N08904	0.025	19.5-21.5	24.0-26.0	4.2-5.2	1.0-2.5	0.50	0.02	-	1.2-2.0	-	-
ER 409	S40900	0.08	10.5-13.5	0.6	0.50	0.8	0.8	0.03	-	0.75	Ti	10xCmin/1.5max
ER 409Cb	S40940	0.08	10.5-13.5	0.6	0.50	0.8	1.0	0.04	-	0.75	Cb ^g	10xCmin/0.75max
ER 410	S41080	0.12	11.5-13.5	0.6	0.75	0.6	0.5	0.03	-	0.75	-	-
ER 410NiMc	S41086	0.06	11.0-12.5	4.0-5.0	0.4-0.7	0.6	0.5	0.03	-	0.75	-	-
ER 420	S42080	0.25-0.40	12.0-14.0	0.6	0.75	0.6	0.5	0.03	-	0.75	-	-
ER 430	S43080	0.10	15.5-17.0	0.6	0.75	0.6	0.5	0.03	-	0.75	-	-
DUPLEX STEEL												
ER 2209	S39209	0.03	21.5-23.5	7.5-9.5	2.5-3.5	0.5-2.0	0.90	0.03	0.08-0.20	0.75	-	-
ER 2507	S32750	0.03	24.0-26.0	6.0-8.0	3.0-5.0	1.20	0.80	0.035	0.24-0.32	0.50	-	-
ER 2553	S39553	0.04	24.0-27.0	4.5-6.5	2.9-3.9	1.5	1.0	0.04	0.10-0.25	1.5-2.5	-	-
ER 2594	S32750	0.03	24.0-27.0	8.0-10.5	2.5-4.5	2.5	1.0	0.03	0.2-0.3	1.5	-	-

Notes:

- Analysis shall be made for the elements for which specific values are shown in this table. If the presence of other elements is indicated in the course of this work, the amount of those elements shall be determined to ensure that their total, excluding iron, does not exceed 0.50 percent.
- Single values shown are maximum percentages.
- In the designator for composite, stranded, and strip electrodes, the "R" shall be deleted. A designator "C" shall be used for composite and stranded electrodes and a designator "O" shall be used for strip electrodes. For example, ERXXX designates a solid wire and EQXXX designates a strip electrode of the same general analysis, and the same UNS number. However, ECXXX designates a composite metal cored or stranded electrode and may not have the same UNS number. Consult ASTM/SAE Uniform Numbering System for the proper UNS Number.
- For special applications, electrodes and rods may be purchased with less than the specified silicon content.
- ASTM/SAE Unified Numbering System for Metals and Alloys.
- Nickel + copper equals 0.5 percent maximum.
- Cb(Nb) may be reported as O>(ND) + Ta.
- These classifications also will be included in the next revision of ANSI/AWS A528, Specification for Low Alloy Steel Filler Metals for Gas Shielded Metal Arc Welding
- They will be deleted from ANSI/AWS A5.9 in the first revision following publication of the revised ANSI/AWS A5.28 document.



MI WIRES



SPECIAL GRADE

Welding Alloys

Nickel : **CORE** Welding for Electrodes

GRADE

Designations

AWS A5.14

Inconel 825	ERNIFECR1
Inconel 62	ERNICRFE5
Inconel 82	ERNICR3
Inconel 625	ERNICRM03
Hastelloy C 276	ERNICRM04
Hastelloy C 4	ERNICRM07
Hastelloy 22	ERNICRM010
Hastelloy 617	ERNICRCOM01
Nickel Ti	ER NI-1
Monel Ti	ERNICU7
Cupro-Nickel 70:30	CU-NI 70:30
Cupro-Nickel 90:10	CU-NI 90:10
Pure Nickel Wire	NICKEL WIRE
Ferro Nickel 60%	FE-NICKEL 60%
Ferro Nickel 55%	FE-NICKEL 55%
Ferro Nickel 36%	FE-NICKEL 36%
Alloy 20	ER320

GRADE

Designations

AWS A5.14

Monel	MONEL
Phosphorus Bronze	ERCUSN-A
Aluminium Bronze	ERCUAL-A2
Silicon Bronze	ERCUSI-A



MI WIRES

Nickel Alloy Filler Metals

Nickel :

MIG

TIG

SAW

GRADE

Designations

EN ISO 18274

AWS A5.14

Alloy 60

Ni 4060

ERNiCu-7

NiCusoMn3Ti

Alloy 67

ERCuNi

Alloy 82

Ni 6082

ERNiCr-3

NiCr20Mn3Nb

Alloy 601

Ni 6601

NiCr23Fe15Al

Alloy 718

Ni 7718

ERNiFeCr-2

NiCr19Fe19Nb5Mo3

Alloy X

ERNiCrMo-2

Alloy C-276

Ni 6276

ERNiCrMo-4

NiCr15Mo16Fe6W4

Alloy 622

Ni 6022

ERNiCrMo-10

NiCr21Mo13Fe6W4

Alloy 625

Ni 6625

ERNiCrMo-3

NiCr22Mo9Nb

Alloy 617

Ni 6617

ERNiCrCoMo-4

NiCr22Co12Mo9

Alloy W

ERNiMo-3

Alloy61

ERNi-1



MI WIRES

CHEMICAL COMPOSITION



Filler Wires for Nickel Based Alloy Welding

AWS

Classifications	C	Mn	Fe	P	S	Si	Cu	Composition, Wt %							
	Ni	Al	Ti	Cr	Mo	Nb+Ta	W	Co							
ER CuNi(70:30)	0.10	1.0	0.4	0.02	0.015	0.50	65.0-70.0	29.0-32.0	-	-	-	-	-	-	-
ER CuNi(90:10)	0.05	1.5	0.5-1.5	0.02	0.010	0.20	Bal	9.0-11.0	-	0.1-0.50	-	-	-	-	-
ER Ni1	0.15	1.0	1.0	0.03	0.015	0.75	0.25	93.0min	1.5	2.0-3.5	-	-	-	-	-
ER NICKR3	0.10	2.5-3.5	3.0	0.03	0.015	0.50	0.50	67.0min	-	0.75	18.0-22.0	-	2.0-3.0	-	-
ER NICKRCOMO1	0.05-0.15	1.0	3.0	0.03	0.015	1.0	0.50	Rem	0.8-1.5	0.60	20.0-24.0	8.0-10	-	-	-
ER NICKRMO10	0.015	0.5	2.0-6.0	0.02	0.01	0.08	0.50	Rem	-	-	20.0-22.5	12.5-14.5	-	2.5-3.5	-
ER NICKRMO7	0.015	1.0	3.0	0.04	0.03	0.08	0.50	Rem	-	0.70	14.0-18.0	14.0-18.0	-	0.50	2.0
ER NICKRMO3	0.10	0.5	5.0	0.02	0.015	0.50	0.50	58.0min	0.40	0.40	20.0-23.0	8-10	3.155.50	-	-
ER NICKRMO4	0.02	1.0	4.0-7.0	0.04	0.03	0.08	0.50	Rem	-	-	14.5-16.5	15-17	-	-	-
ER NICKU7	0.15	4.0	2.5	0.02	0.015	1.25	Rem	62.0-69.0	1.25	1.5-3.0	-	-	-	-	-
Fe.Ni (36%)	0.05	2.5	Bal	-	0.03	0.50	2.50	28.0-36.0	1.00	-	-	-	-	-	-
Fe.Ni (55%)	0.05	2.5	Bal	-	0.03	0.50	2.50	45.0-60.0	1.00	-	-	-	-	-	-
Inconel 825	0.05	1.0	22.0min	-	0.03	0.50	1.5-3.0	38.0-46.0	0.20	0.6-1.2	19.5-23.5	-	-	-	-
Inconel 62	0.08	1.0	6.0-10.0	0.03	0.015	0.35	0.50	70.0min	-	14.0-17.0	-	-	1.5-3.0	-	-
Nickel Wire	0.10	1.0	Bal	0.03	0.03	0.50	-	99.0min	-	-	-	-	-	-	-
Fe.Ni (60%)	0.10	1.0	Bal	0.02	0.03	0.15	0.35	57min	-	-	-	-	-	-	-
Fe.Ni (55%)Cu(4%)	0.10	1.0	Bal	-	0.02	0.20	3.5-4.5	53.0min	-	-	-	-	-	-	-

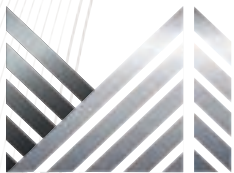
Filler Wires for Copper and Copper Alloys Welding

AWS

Classifications	Cu+Ag	Zn	Sn	Mn	Fe	Si	Ni+Co	P	Al	Ti	Pb	Mo	Nb+Ta	W
Monel	Bal	-	-	1.00	0.75	0.25	29.0-32.0	0.02	-	0.05	0.02	-	-	-
Aluminium Bronze	Rem	0.02	-	-	1.5	0.10	-	-	8.5-11.0	-	0.02	-	-	-
Phosphorus Bronze	Rem	-	4.0-6.0	-	-	-	-	0.10-0.35	0.01	-	0.02	-	-	-
Silicon Bronze	Rem	1.0	1.0	1.5	0.50	2.8-4.0	-	-	0.01	-	0.02	-	-	-



MI WIRES



METAL IMPEX
NK METAL IMPEX AND ALLOYS LLP

MI WIRES

The Heartbeat of Welding &
Wire Mesh Industry

Stockist of :
Stainless Steel, Duplex,
Super Duplex and Nickel Alloy
Welding Wires.

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3rd Lane Khetwadi, Mumbai - 400 004.

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