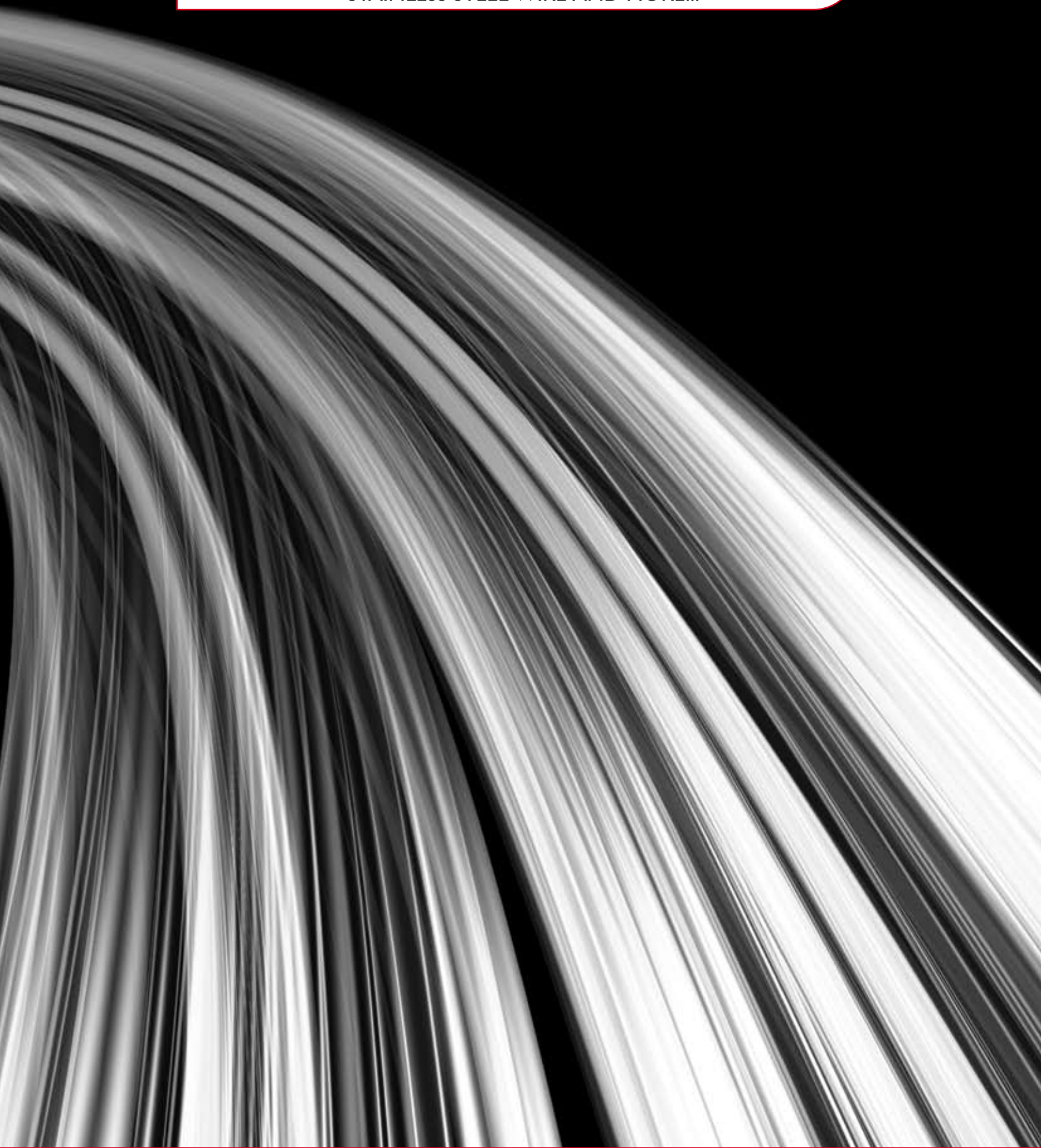


NOVAMETAL  GROUP
STAINLESS STEEL WIRE AND MORE...





A SINGULAR SERVICE IN THE BROAD SPECTRUM OF PRODUCER/CLIENT RELATIONS

Novametal SA was founded in 1982 to specialise in the manufacture of Stainless Steel, Aluminium and Nickel Alloy wires for a variety of applications.

Since this time the original facility has been developed in line with the continuing expansion of the business. By the subtle yet dynamic cross fertilisation of the Swiss quality, precision, ingenuity and organisation with production and quality control methods constantly being reviewed (Novametal S.A. is certified according to standard EN ISO 9001-2000), revised and improved Novametal SA has achieved a reputation for technical and commercial expertise.

Key to this success has been the development of close working relationships with our clients. By translating customer demands into a quality controlled end product, Novametal SA has been able to develop sophisticated production and quality control systems, geared to measure the product at each stage of its production to meet and exceed our client's requirements. This dynamic two-way exchange of trust and understanding has been a cornerstone of Novametal's development.



UN SERVIZIO SPECIFICO E PERSONALIZZATO TRA PRODUTTORE E CLIENTE

La Novametal SA fondata, in Svizzera nel 1982, è stata concepita specificamente per la produzione di filo in Acciaio Inossidabile, Alluminio ed Leghe Nickel destinati ad un'ampia gamma di applicazioni. Lo sviluppo di impianti e tecnologie ha seguito sin dall'inizio la continua espansione dei mercati. La Novametal SA, attraverso la puntigliosa ricerca della qualità, precisione, organizzazione svizzera, supportata da revisioni ed aggiornamenti continui nei sistemi di produzione e controllo qualità (la Novametal SA è certificata secondo Norma EN ISO 9001-2000), si è assicurata un'ottima immagine sia tecnica che commerciale.

La chiave di questo successo è stata lo sviluppo di un dialogo continuo con i nostri interlocutori. Solo cercando di trasformare le esigenze dei clienti in prodotti finiti di qualità, la Novametal SA è riuscita a creare sofisticati sistemi produttivi ed accurati controlli qualitativi che le permettono verifiche durante i differenti stadi di produzione tali da garantire ed addirittura eccedere gli standard richiesti. È dunque a questo continuo e reciproco scambio di comprensione e fiducia che si deve la forza della Novametal SA.



UN SERVICE SPECIFIQUE ET PERSONNALISE ENTRE PRODUCTEUR ET CLIENT

La Société Novametal SA, fondée en Suisse en 1982, a été créée spécifiquement pour la production de fils tréfilés en acier inoxydable, en Aluminium et en alliages Nickel, destinés à une vaste gamme d'applications.

Le développement de notre technologie et de nos installations a suivi, depuis sa création la perpétuelle expansion et modernisation des marchés. Fidèle à l'esprit Suisse de précision et d'organisation, Novametal SA a, par sa recherche constante, amélioré et optimisé ses outils de production ainsi que la qualité de ses produits. La mise en place de L'Assurance Qualité (la société Novametal SA est certifiée selon la Norm EN ISO 9001-2000) et de services techniques adaptés aux exigences les plus pointues a contribué à forger l'excellente réputation tant technique que commerciale dont jouit aujourd'hui notre Société. La raison de ce succès, résulte d'un dialogue permanent avec nos partenaires afin de respecter leurs impératifs tant qualitatifs qu'économiques. Consciente que la satisfaction de ses clients est une priorité. Novametal SA, a opté, pour des moyens de productions sophistiqués et modernes incluant des procédures de contrôle qualité adaptés aux normes internationales.

C'est donc grâce à l'instauration avec ses clients, d'une relation fondée sur la confiance, que la Société Novametal doit sa réussite.



EINEN BESONDEREN SERVICE ZU BIETEN IM VERHÄLTNIS HERSTELLER KUNDE

Die Firma Novametal SA im Jahre 1982 gegründet, produziert ausschließlich rostfreie Edelstahldrähte sowie Nickel-Legierungen für einen breiten Anwendungsbereich.

Die Weiterentwicklung unserer Technologie und Modernisierung unserer Betriebseinrichtungen, seit der Gründung, haben zu einer stetigen Ausweitung der Kapazitäten Novametals geführt. Durch eine konstante Qualität, Präzision, Schweizer Unternehmensstruktur, Betriebsabläufe nach neuesten Erkenntnissen und Qualitätssicherung (Die Firma Novametal SA erfüllt die Norm EN ISO 9001-2000) hat sich Novametal SA einen hervorragenden Ruf in technischer als auch kaufmännischer Hinsicht erarbeitet.

Der Grund dieses Erfolges ist der ständige Dialog mit unseren Partnern. In dem Bestreben die Wünsche unserer Kunden in ihre Fertigprodukte höchster Qualität umzusetzen, ist es Novametal SA gelungen die Betriebsmittel so einzusetzen, dass die Qualitätskontrollen während der verschiedenen Produktionsstufen den verlangten Standard erreichen. Folglich ist dieses Bestreben um Verständigung und Vertauen gegenüber unseren Partnern eine Notwendigkeit für den Erfolg unserer Unternehems.



EVOLUTION OF THE NOVAMETAL GROUP

EVOLUZIONE DEL GRUPPO NOVAMETAL

EVOLUTION DU GROUPE NOVAMETAL

ENTWICKLUNG DER NOVAMETAL GRUPPE

NOVAMETAL  GROUP

Over the years the Novametal Group has evolved to meet the demands of the worldwide market and now has the following global production/stockholding facilities:

PRODUCTION FACILITIES

IMPIANTI DI PRODUZIONE - MOYENS DE PRODUCTION - FERTIGUNGSTÄTTEN



NOVAMETAL SA

- Founded:
- Products:

Rancate, Switzerland
1982

Stainless Steel, Aluminium & Nickel Alloy Wire



NOVAMETAL do Brasil

- Founded:
- Products:

Pindamonhangaba, Brazil
2000

Stainless Steel Wire & Drawn Bars & Aluminium Wire



TIM Mexico

- Incorporated:
- Products:

Huamantla Valley, Mexico
2005

Stainless Steel Wire & Drawn Bars



WPSS

WPSS

- Incorporated:
- Products:

Johannesburg, South Africa
2006

Stainless Steel Wire, Drawn Bars & Profiles



TDV

- Incorporated:
- Products:

Plombières-les-Bains, France
2008

Profile Wire



BIENNAFORM AG

- Incorporated:
- Products:

Biel, Switzerland
2008

Flat and Profile Wire



STOCKHOLDING FACILITIES

STOCKHOLDING SERVIZI - STOCKAGE SERVICES - LAGERHANDELS EINRICHTUNGEN

S.S.P.

SSP

- Stocked Items:

New Jersey, USA
Stainless Steel Wire



TECHWIRE INT. LTD

- Incorporated:
- Stocked Items:

Birmingham, United Kingdom
2006

Stainless Steel Wire

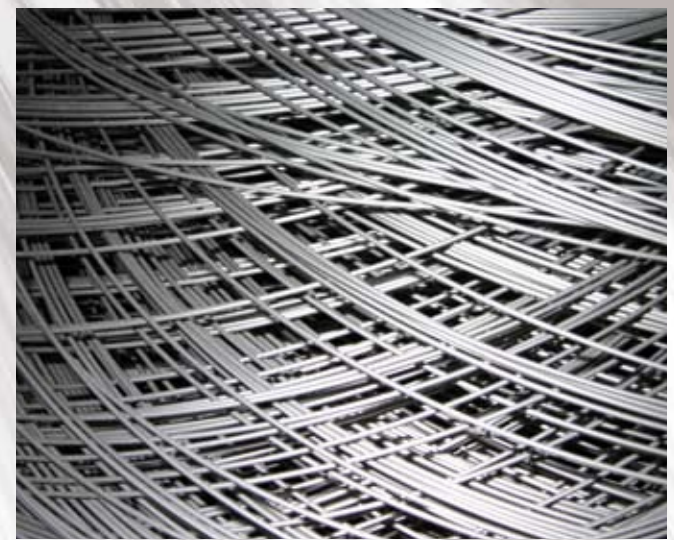


STAINLESS STEEL MECHANICAL AND FINE WIRE

FILO PER APPLICAZIONI MECCANICHE & FILO SOTTILE
 FILS POUR APPLICATIONS MÉCANIQUES & FILS FINS
 DRAHT FÜR MECHANISCHE ANWENDUNGEN & FEINDRÄHTE

NOVAMETAL  GROUP

PRODUCT AVAILABILITY DISPONIBILITÀ PRODOTTO - PRODUITS DISPONIBLES - VERFÜGBARE WERKSTOFFE			
Novametal	AISI	EN 10088	W.Nr.
NM 302	302	X10CrNi 18-8	1.4310
NM 302Mo	302 Mo	X10CrNi 18-8 (Mo)	1.4310 Mo
NM 304G	304	X5CrNi 18-10	1.4301
NM 304L	304L	X2CrNi 18-9	1.4307
NM 304V	304L	X2CrNi 19-11	1.4306
NM 304	304H	X5CrNi 18-10	1.4301
NM 305	305	X4CrNi 18-12	1.4303
NM 309G	309S	X12CrNi 23-13 (EN10095)	1.4833
NM 310G	310	X8CrNi 25-21 (EN10095)	1.4845
NM 314	314	X15CrNiSi 25-21 (EN10095)	1.4841
NM 316G	316	X5CrNiMo 17-12-2	1.4401
NM 316V	316L	X2CrNiMo 17-11-2	1.4404
NM 316Ti	316 Ti	X6CrNiMoTi 17-12-2	1.4571
NM 321	321	X6CrNiTi 18-10	1.4541
NM 430L	430	X6Cr 17	1.4016
NM 434	434	X6CrMo 17-1	1.4113



DIAMETERS DIAMETRI - DIAMETRES - DURCHMESSER	
Standard from 0.16mm to 10.00mm	
Larger/smaller diameters available on request Diametri maggiori/minori fornibili su richiesta Diamètres supérieurs/inferieurs sont livrés sur demande Grössere/kleinere Abmessungen auf Anfrage	

SUPPLY CONDITION STATO DI FORNITURA - ÉTAT DE LIVRAISON - LIEFERZUSTAND			
Annealed	Ricotto	Recuit	gegliht
Annealed skinpassed	Ricotto skinpassato	Recuit skinpassé	gegliht kaltnachgezogen
Light Drawn	Semicrudo	Semi-écroui	halbhartgezogen
Hard Drawn	Crudo	Écroui	hartgezogen

MECHANICAL PROPERTIES CARATTERISTICHE MECCANICHE - CARACTERISTIQUES MECANIQUES - MECHANISCHE EIGENSCHAFTEN			
As required by customer	Secondo richiesta cliente	Selon spécification	nach Kundenwunsch

SURFACE FINISHES STATO SUPERFICIALE - ASPECT DE SURFACE - OBERFLÄCHE			
White annealed	Ricotto bianco	Recuit blanc	weissgeglüht
Bright	Lucido	Poli decò	hellblank
Stearate coated	Stearato	Stéaraté	stearat
Novacoating system	Novacoating system	Novacoating system	Novacoating system

STAINLESS STEEL MECHANICAL AND FINE WIRE

FILO PER APPLICAZIONI MECCANICHE & FILO SOTTILE
 FILS POUR APPLICATIONS MÉCANIQUES & FILS FINS
 DRAHT FÜR MECHANISCHE ANWENDUNGEN & FEINDRÄHTE

NOVAMETAL  GROUP

PACKING FOR MECHANICAL WIRE

IMBALLO PER MECCANICO FILO - EMBALLAGE POUR APPLICATIONS
 MÉCANIQUES - VERPACKUNG FÜR MECHANISCHE DRÄHTE

COIL MATASSA - COURONNE - RINGE			
Ø mm	1.00 to 1.60	1.60 to 5.20	>5.20
Weight (kg)	25 to 80	100 to 200	150 to 300
Ø int. mm	300 to 500	500 to 700	700 to 800



DRUM FUSTO - FÛT - FASS		
Ø mm	0.70 to 1.20	1.20 to 1.70
Weight (kg)	100 to 150	100 to 200



CARDBOARD COIL (Z2) BOBINA (Z2) - BOBINE TRANCANNÉE (Z2) - PAPPYLINDER (Z2)		
Ø mm	1.80 to 5.20	>5.20
Weight (kg)	600 to 1300	600 to 1300
Ø int. mm	380 - 500 - 550	500 - 550



SPIDER BADERNA - DEVIDOIR - KRONENSTOCK		
Ø mm	1.60 to 6.20	>5.20
Weight (kg)	700 to 1000	700 to 1000
Ø int. mm	420 - 480 - 530	730



STEEL REEL K760 ROCCA DI FERRO - TOURET MÉTALLIQUE - STAHLSPULE	
Ø mm	0.70 to 2.50
Weight (kg)	100 to 300



PACKING FOR FINE WIRE

IMBALLO FINE PER FILO
 EMBALLAGE POUR FILS FINS
 VERPACKUNG DER FEINDRÄHTE

SPOOL BOBINA - BOBINE - SPULE					
Spool Size	DIN 160	DIN 200	DIN 250	DIN 355	PT 90
Ø mm	0.16 to 0.50	0.20 to 0.60	0.20 to 0.80	0.20 to 0.80	0.28 to 0.80
Ø inches	0.006 to 0.020	0.008 to 0.024	0.008 to 0.031	0.008 to 0.031	0.008 to 0.031
Weight (kg)	6	13	20	40	90
Weight (lb)	13	29	44	88	198



MECHANICAL AND FINE WIRE GRADES AND CHEMICAL COMPOSITION

MARCHE E COMPOSIZIONE CHIMICA - NUANCES ET COMPOSITIONS CHIMIQUES - WERKSTOFFE UND CHEMISCHE ZUSAMMENSETZUNG

Novametal	AISI	EN 10088	W.Nr.	C	Si	Mn	P	S	Cr	Ni	Mo	Others
NM 302	302	X10CrNi 18-8	1.4310	0.05 to 0.15	2.00 max	2.00 max	0.045 max	0.015 max	16.00 to 19.00	6.00 to 9.50		
NM 302Mo	302Mo	X10CrNi 18-8 (Mo)	1.4310 Mo	0.08 to 0.12	1.30 max	1.50 max	0.030 max	0.015 max	16.50 to 17.80	8.00 to 9.00	0.60 to 0.80	
NM 304G	304	X5CrNi 18-10	1.4301	0.07 max	1.00 max	2.00 max	0.045 max	0.030 max	17.50 to 19.50	8.00 to 10.50		
NM 304L	304L	X2CrNi 18-9	1.4307	0.03 max	1.00 max	2.00 max	0.045 max	0.030 max	18.00 to 20.00	8.00 to 10.00		
NM 304V	304L	X2CrNi 19-11	1.4306	0.03 max	1.00 max	2.00 max	0.045 max	0.030 max	18.00 to 20.00	10.00 to 12.00		
NM 304	304H	X5CrNi 18-10	1.4301	0.04 to 0.10	1.00 max	2.00 max	0.045 max	0.030 max	18.00 to 20.00	8.00 to 11.00		
NM 305	305	X4CrNi 18-12	1.4303	0.03 max	0.70 max	1.00 to 2.00	0.040 max	0.010 max	17.00 to 19.00	11.00 to 13.00	0.40 max	
NM 309G	309S	X12CrNi 23-13 (EN10095)	1.4833	0.08 max	1.00 max	2.00 max	0.045 max	0.015 max	22.00 to 24.00	12.00 to 15.00		
NM 310G	310	X8CrNi 25-21 (EN10095)	1.4845	0.10 max	1.50 max	2.00 max	0.045 max	0.015 max	24.00 to 26.00	19.00 to 22.00		
NM 314	314	X15CrNiSi 25-21 (EN10095)	1.4841	0.20 max	1.50 to 2.50	2.00 max	0.045 max	0.030 max	24.00 to 26.00	19.00 to 22.00		
NM 316G	316	X5CrNiMo 17-12-2	1.4401	0.07 max	1.00 max	2.00 max	0.045 max	0.030 max	16.50 to 18.50	10.00 to 13.00	2.00 to 2.50	
NM 316V	316L	X2CrNiMo 17-11-2	1.4404	0.03 max	1.00 max	2.00 max	0.045 max	0.030 max	16.50 to 18.50	10.00 to 12.00	2.00 to 2.50	
NM 316Ti	316Ti	X6CrNiMoTi 17-12-2	1.4571	0.08 max	1.00 max	2.00 max	0.045 max	0.030 max	16.50 to 18.50	10.50 to 13.50	2.00 to 2.50	Ti=5xC/0.70
NM 321	321	X6CrNiTi 18-10	1.4541	0.08 max	1.00 max	2.00 max	0.045 max	0.030 max	17.00 to 19.00	9.00 to 12.00		Ti=5xC/0.70
NM 430L	430	X6Cr 17	1.4016	0.08 max	1.00 max	1.00 max	0.040 max	0.030 max	16.00 to 18.00			
NM 434	434	X6CrMo 17-1	1.4113	0.08 max	1.00 max	1.00 max	0.040 max	0.030 max	16.00 to 18.00		0.90 to 1.40	

Other sizes, qualities and packaging are available upon request
 Altri diametri, leghe ed imballi sono disponibili a richiesta
 Selon vos demandes, nous pouvons réaliser d'autres diamètres alliages et conditionnements
 Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage

STAINLESS STEEL WIRE FOR COLD HEADING

FILO PER STAMPAGGIO A FREDDO

FILS POUR FRAPPE À FROID

ROSTFREIER KALTSTAUCHDRAHT

NOVAMETAL  GROUP

PRODUCT AVAILABILITY

DISPONIBILITÀ PRODOTTO - PRODUITS DISPONIBLES - VERFÜGBARE WERKSTOFFE

Novametal	AISI	EN 10088	W.Nr.
NM 304Cu	302 Hq	X3CrNi 18-9-4	1.4567
NM 304L	304L	X2CrNi 19-11	1.4306
NM 316V	316L	X2CrNiMo 17-11-2	1.4404
NM 316Cu	316Cu	X3CrNiCuMo 17-11-3-2	1.4578
NM 410L	410	X12Cr 13	1.4006
NM 420CS	420	X43Cr 13	1.4034
NM 430L	430	X6Cr 17	1.4016



DIAMETER

DIAMETRI - DIAMETRES - DURCHMESSER

Standard from 1.00mm to 10.00mm

Larger/smaller diameters available on request
 Diametri maggiori/minori fornibili su richiesta
 Diamètres supérieurs/inferieurs sont livrés sur demande
 Grössere/kleinere Abmessungen auf Anfrage



TOLERANCES

TOLLERANZE - TOLÉRANCES - TOLERANZEN

ISO h9 to DIN 671

SUPPLY CONDITION

STATO DI FORNITURA - ÉTAT DE LIVRAISON - LIEFERZUSTAND

Annealed	Annealed skinpassed	Skinpassed
Ricotto	Ricotto skinpassato	Skinpassato
Recuit	Recuit skinpassé	Skinpassé
geglüht	geglüht kaltnachgezogen	kaltgezogen

SURFACE FINISHES

STATO SUPERFICIALE - ÉTAT DE SURFACE - OBERFLÄCHENZUSTÄNDE

With years of study and research, Novametal's technical staff have produced a specialised coating system specifically for cold heading, the Nova Coating System (NCS).

NCS-Nova Coating System can/is:-

- Improve the forming of the wire
- Offer a longer shelf life
- Offer a longer tool life
- Easy to remove (soluble in water)
- Resistant to pre-forging temperatures



OTHER FINISHES AVAILABLE

ALTRE RIFINITURE POSSIBILI - AUTRES FINITIONS POSSIBLES - WEITERE OBERFLÄCHENZUSTÄNDE

Annealed white	Ricotto bianco	Recuit blanc	geglüht blank
Grease skinpassed	Skinpassato a grasso/olio	Skinpassé à la graisse	schmierblank nachgezogen

MECHANICAL PROPERTIES

CATATTERISTICHE MECCANICHE - CARACTERISTIQUES MECANIQUES - MECHANISCHE EIGENSCHAFTEN

Ømm	NM 304L (N/mm ²)	NM 304Cu (N/mm ²)	NM 316V (N/mm ²)	NM 316Cu (N/mm ²)	NM 430L (N/mm ²)
1.00 to 2.50	580 to 680	580 to 680	580 to 680	580 to 680	500 to 600
2.50 to 5.00	480 to 580	480 to 580	580 to 680	480 to 580	480 to 580
>5.00	480 to 580	480 to 580	550 to 650	480 to 580	450 to 550

STAINLESS STEEL WIRE FOR COLD HEADING

FILO PER STAMPAGGIO A FREDDO

FILS POUR FRAPPE À FROID

ROSTFREIER KALTSTAUCHDRAHT

NOVAMETAL  GROUP

PACKING FOR COLD HEADING WIRE

PER IMBALLO FREDDO RUBRICA FILO - EMBALLAGE POUR FRAPPE À FROID - VERPACKUNGEN FÜR KALTSTAUCHDRAHT

COIL

MATASSA - COURONNE - RINGE

Ø mm	1.00 to 1.60	1.60 to 5.20	>5.20
Weight (kg)	25 to 80	100 to 200	150 to 300
Ø int. mm	300/500	500/700	700/800



SPIDER

BADERNA - DEVIDOIR - KRONENSTOCK

Ø mm	1.60 to 6.20	5.00 to 10.00
Weight (kg)	600 to 1000	700 to 1000
Ø int. mm	420 - 480 - 530	730



CARDBOARD COIL (Z2)

BOBINA (Z2) - BOBINE TRANCANNÉE (Z2) - PAPPYLINDER (Z2)

Ø mm	1.60 to 5.20	1.60 to 5.20	>5.20
Weight (kg)	500 to 1000	500 to 1300	500 to 1300
Ø int. mm	380	550	380 - 550



GRADES AND CHEMICAL COMPOSITION

MARCHE E COMPOSIZIONE CHIMICA - NUANCES ET COMPOSITIONS CHIMIQUES - WERKSTOFFE UND CHEMISCHE ZUSAMMENSETZUNG

AISI	EN 10088	W.Nr.	C	Si	Mn	P	S	Cr	Ni	Mo	Others
302Hq / 304Cu	X3CrNi 18-9-4	1.4567	0.04 max	1.00 max	2.00 max	0.045 max	0.03 max	17.00 to 19.00	8.50 to 10.50		Cu=3.00 to 4.00
304C	X5CrNi 18-10	1.4301	0.07 max	1.00 max	2.00 max	0.045 max	0.03 max	18.00 to 19.00	8.00 to 10.00		
304L	X2CrNi 19-11	1.4306	0.03 max	1.00 max	2.00 max	0.045 max	0.03 max	18.00 to 20.00	10.00 to 12.00		
316L	X2CrNiMo 17-11-2	1.4404	0.03 max	1.00 max	2.00 max	0.045 max	0.03 max	16.50 to 18.50	10.00 to 12.00	2.00 to 2.50	
316Cu	X3CrNiCuMo 17-11-3-2	1.4578	0.04 max	1.00 max	1.00 max	0.045 max	0.015 max	16.50 to 17.50	10.00 to 11.00	2.00 to 2.50	Cu=3.00 to 3.50
410	X12Cr 13	1.4006	0.08 to 0.15	1.00 max	1.50 max	0.040 max	0.03 max	11.50 to 13.50	0.75 max		
420	X43Cr 13	1.4034	0.43 to 0.50	1.00 max	1.00 max	0.040 max	0.03 max	12.50 to 14.50			
430	X6Cr 17	1.4016	0.08 max	1.00 max	1.00 max	0.040 max	0.03 max	16.00 to 18.00			

Other sizes, qualities and packaging are available upon request

Altri diametri, leghe ed imballi sono disponibili a richiesta

Selon vos demandes, nous pouvons réaliser d'autres diamètres alliages et conditionnements

Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage

STAINLESS STEEL WIRE FOR SPRINGS

FILO PER MOLLE

FIL POUR RESSORT

ROSTFREIER FEDERSTAHLDRAHT

NOVAMETAL  GROUP

PRODUCT AVAILABILITY

DISPONIBILITÀ PRODOTTO - PRODUITS DISPONIBLES - VERFÜGBARE WERKSTOFFE

Novametal	AISI	EN 10088	W.Nr.
NM302	302	X10CrNi 18-8	1.4310
NM 304G	304	X5CrNi 18-10	1.4301
NM 316G	316	X5CrNiMo 17-12-2	1.4401
NM 316Ti	316Ti	X6CrNiCuMoTi 17-12-2	1.4571

DIAMETER

DIAMETRI - DIAMÈTRES - DURCHMESSER

Standard from 0.20mm to 10.00mm

Larger/smaller diameters available on request
 Diametri maggiori/minori fornibili su richiesta
 Diamètres supérieurs/inferieurs sont livrés sur demande
 Grössere/kleinere Abmessungen auf Anfrage



TOLERANCES

TOLLERANZE - TOLÉRANCES - TOLERANZEN

In accordance with	Secondo norme	Selon norme	nach Norm
BS 2056	BS 2056	BS 2056	BS 2056
EN 10270-3 to DIN 2076/C	EN 10270-3 to DIN 2076/C	EN 10270-3 to DIN 2076/C	EN 10270-3 to DIN 2076/C
Customer requirement	Su richiesta cliente	Sur demande client	nach Kundenwunsch

SUPPLY CONDITION

STATO DI FORNITURA - ÉTAT DE LIVRAISON - LIEFERZUSTAND

Hard drawn wire	Filo incrudito	Fil ecroui	hartgezogen
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SURFACE FINISHES/COATINGS

STATO SUPERFICIALE - ÉTAT DE SURFACE - OBERFLÄCHENZUSTAND

Bright	Lucido	Poli brillant	hellblank
Stearate coated	Stearato	Stearate mat	gleitgünstig

MECHANICAL PROPERTIES

CATATTERISTICHE MECCANICHE - CARACTERISTIQUES MECANIQUES - MECHANISCHE EIGENSCHAFTEN

In accordance with	Secondo norme	Selon norme	nach Norm
ASTM A313	ASTM A313	ASTM A313	ASTM A313
BS 2056	BS 2056	BS 2056	BS 2056
EN 10270-3 to DIN 2076/C	EN 10270-3 to DIN 2076/C	EN 10270-3 to DIN 2076/C	EN 10270-3 to DIN 2076/C
Customer requirement	Su richiesta cliente	Sur demande client	nach Kundenwunsch

STAINLESS STEEL WIRE FOR SPRINGS

FILO PER MOLLE

FIL POUR RESSORT

ROSTFREIER FEDERSTAHLDRAHT

NOVAMETAL  GROUP

PACKING FOR WIRE FOR SPRINGS

IMBALLO PER FILO PER MOLLE - EMBALLAGE POUR FILS RESSORTS - VERPACKUNGEN FÜR FEDERSTAHLDRAHT

COIL

MATASSA - COURONNE - RINGE

Ø mm	0.70 to 1,60	1.60 to 10.00
Weight (kg)	15 to 80	100 to 200
Ø int. mm	300/500	500/700



CARDBOARD COIL (Z2)

BOBINA (Z2) - BOBINE TRANCANNÉE (Z2) - PAPPYLINDER (Z2)

Ø mm	1.60 to 6.00
Weight (kg)	500 to 1000
Ø int. mm	380



STEEL REEL K760

ROCCA DI FERRO - TOURET MÉTALLIQUE - STAHLSPULE

Ø mm	0.50 to 2.50
Weight (kg)	150 to 250



SPOOL

BOBINA, BOBINE, SPULE

Ø mm	0.20 to 0.50
Weight (kg)	20 to 40



GRADES AND CHEMICAL COMPOSITION

MARCHE E COMPOSIZIONE CHIMICA - NUANCES ET COMPOSITIONS CHIMIQUES - WERKSTOFFE UND CHEMISCHE ZUSAMMENSETZUNG

Novametal	AISI	EN 10088	W.Nr.	C	Si	Mn	P	S	Cr	Ni	Mo	Others
NM302	302	X10CrNi 18-8	1.4310	0.05 to 0.15	2.00 max	2.00 max	0.045 max	0.03 max	16.00 to 19.00	6.00 to 9.50		
NM 304G	304	X5CrNi 18-10	1.4301	0.07 max	1.00 max	2.00 max	0.045 max	0.03 max	17.50 to 19.50	8.00 to 10.50		
NM 316G	316	X5CrNiMo 17-12-2	1.4401	0.07 max	1.00 max	2.00 max	0.045 max	0.03 max	16.50 to 18.50	10.00 to 13.00	2.00 to 2.50	
NM 316Ti	316Ti	X6CrNiCuMoTi 17-12-2	1.4571	0.08 max	1.00 max	2.00 max	0.045 max	0.03 max	16.50 to 18.50	10.50 to 13.50	2.00 to 2.50	Ti=5xC/0.70

Other sizes, qualities and packaging are available upon request

Altri diametri, leghe ed imballi sono disponibili a richiesta

Selon vos demandes, nous pouvons réaliser d'autres diamètres alliages et conditionnements

Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage

PROFILE AND FLAT WIRE

PROFILO E FLAT WIRE

PROFILS ET FILS PLATS

PROFIL UND FLACHDRAHT

NOVAMETAL  GROUP

FLAT WIRES

FLAT WIRES - FILS PLATS - FLACHDRAHT

Section Parameters from 0.5 to 45 mm²

Flat rolled section with natural rounded edges

Rectangular flat rolled section with round corners

Rectangular flat rolled section with square corners

Square rolled section with round corners

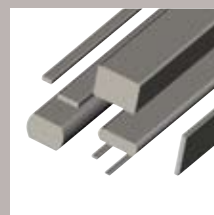
Square rolled section with square corners

Flat rolled section with full rounded edges

Hexagonal rolled section






Half-round

Part-round



FLAT WIRE DATA

FLAT WIRES DAT - DONNÉES FILS PLATS - FLACHDRAHT DATEN

SECTION TYPE		NATURAL ROUNDED EDGES	RECTANGULAR FIT		SQUARE	
			ROUND CORNERS	SQUARE CORNERS	ROUND CORNERS	SQUARE CORNERS
						
Section	Min	0.5mm ²	0.5mm ²	0.5mm ²	0.5mm ²	0.5mm ²
	Max	45mm ²	45mm ²	45mm ²	45mm ²	45mm ²
Width	Min	0.8mm	0.8mm	0.8mm	0.8mm	0.8mm
	Max	15mm	15mm	15mm	7mm	7mm
Tolerance	<5mm	±0.05 standard • ± 0.025 on request				
	>5mm	±0.1 standard • ± 0.04 on request				
Thickness	Min	0.25mm	0.25mm	0.8mm	0.8mm	0.8mm
	Max	6mm	6mm	6mm	7mm	7mm
Tolerance	<2mm	±0.025 standard • ± 0.015 on request				
	>2mm	±0.05 standard • ± 0.02 on request				
Radius		n/a	over 0.2mm	under 0.2mm	over 0.2mm	under 0.2mm

OTHER ROLLED SECTIONS

LAMINATI ALTRE SEZIONI
AUTRES SECTIONS LAMINÉES
ANDERE WALZPROFILE

FULL ROUNDED EDGES



HEXAGONAL



HALF ROUND



PART ROUND



SPECIAL PROFILES

SPECIALI PROFILI - PROFILES SPECIAUX - SPEZIAL PROFILE

Section Parameters from according to customers specifications

Oval

Triangular

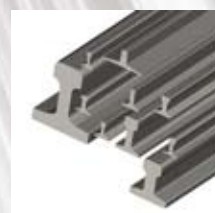
Any complex geometrical shapes

Please contact us with your specific requirement

PROFILE TOLERANCES

PROFILO TOLLERANZE - TOLÉRANCES SUR PROFILS
PROFIL TOLERANZEN

Our expertise allows us to assist our clients in their continued quest for closer and closer tolerances. Thus, for certain profiles, we guarantee a variation of 2/100th mm over a length of 10km. We also take into account our clients specific requirements concerning bending, twisting, camber and cast.



PROFILE AND FLAT WIRE

PROFILO E FLAT WIRE

PROFILS ET FILS PLATS

PROFIL UND FLACHDRAHT

NOVAMETAL  GROUP

FILTRATION PROFILES

FILTRAZIONE PROFILI - PROFILS DE FILTRATION - FILTRATIONS PROFILE

The Novametal Group is a major producer of profiles for the precision filtration markets in:-

Water Industry

Petroleum and Natural Gas Industry

Petrochemical Industry

Chemical Industry

Mining Industry

Pharmaceutical Industry



MATERIAL AVAILABLE

MATERIALE DISPONIBILE - MATERIEL DISPONIBLE - VERFÜGBARES MATERIAL

STAINLESS STEEL	CARBON STEEL	NON-FERROUS
Ferritic	Mild	Bronze
Martensitic	Mild Galvanised	Brass
Austenitic	Hard	Nickel Silver
Super Inox	Alloys	Monel
Duplex		Copper
		Titanium

Other materials available on request.

OTHER PACKAGING

MATERIALE DISPONIBILE - CONDITIONNEMENTS - SONSTIGE VERPACKUNG



Other sizes, qualities and packaging are available upon request
 Altri diametri, leghe ed imballi sono disponibili a richiesta
 Selon vos demandes, nous pouvons réaliser d'autres diametres alliages et conditionnements
 Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage



STAINLESS STEEL DRAWN BAR

BAR
BARRES
STÄBE

NOVAMETAL  GROUP

PRODUCT AVAILABILITY

DISPONIBILITÀ PRODOTTO - PRODUITS DISPONIBLES - VERFÜGBARE WERKSTOFFE

NOVAMETAL	AISI	EN 10088	W.Nr.
303	303	X8 CrNiS 18-9	1.4305
304	304	X5CrNi18-10	1.4301
304L	304L	X2 CrNi 18-9	1.4307
316	316	X5 CrNiMo 17-12-2	1.4401
316L	316L	X2CrNiMo17-12-2	1.4404
416	416	X 12 Cr Si3	1.4005
420A	420	X20Cr13	1.4021
420B	420	X30Cr13	1.4028
420C	420	X39Cr13	1.4031
430L	430	X6Cr17	1.4016
431	431	X17CrNi6-2	1.4057



SIZES

DIMENSIONI - SECTIONS - DURCHMESSER

SECTION	STANDARD DIAMETER	LENGTH
ROUND	2.00 upto 32.00mm	3 metres upto 6 metres
SQUARE	6.00 upto 22.00mm	
HEXAGONAL	4.00 upto 27.00mm	



MECHANICAL PROPERTIES

CATATERISTICHE MECCANICHE - CARACTERISTIQUES MECANQUES - MECHANISCHE EIGENSCHAFTEN

As required by customer



PACKING FOR BARS

IMBALLO PER BAR - CONDITIONNEMENT DES BARRES - VERPACKUNG FÜR STÄBE



Other size, qualities and packaging are available upon request

Altri diametri, leghe ed imballi sono disponibili a richiesta

Selon vos demandes, nous pouvons réaliser d'autres diametres alliages et conditionnements

Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage

IRON BASKETS FERRO CESTELLI - BOBINES MÉTALLIQUES - KORBSPULE

For use with MIG/MAG welding wires or fencing wire

CAPACITY

CAPACITÀ - CAPACITÉ - FÜLLGEWICHT

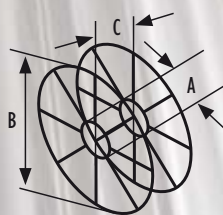
Stainless Steel Wire	15kg to 18kg
Aluminium Wire	7kg maximum

FINISH CONDITION

FINISH CONDIZIONE - FINITIONS - OBERFLÄCHENAUSFÜHRUNG

Painted

Black	Blue	Red	Copper Coated
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A = 52mm
B = 300mm
C = 100mm



METALLIZING/THERMAL SPRAY COATING WIRE

FILO PER PROCESSI DE METALLIZZAZIONE/THERMAL SPRAY

FILS POUR PROCÉDÉS DE MÉTALLISATION/THERMAL SPRAY

DRAHT ZUR METALLISIERUNG/THERMAL SPRAY

NOVAMETAL  GROUP

STAINLESS STEEL WIRE



Alloy	Packing	Size	Diameters(mm)	Weight(kg)
AISI 304 AISI 308 AISI 316 AISI 410 AISI 420	Plastic Spool	DIN 300	1.00 to 2.40	15
		DIN 320	1.00 to 2.40	20
	Iron Basket	BS 300	1.00 to 2.40	15
		BS 415	1.00 to 2.40	25
	Coil	Id 300-500	1.80 to 5.00	40 to 150
	Drum		1.00 to 1.60	150 to 200

ALUMINIUM WIRE



Alloy	Packing	Size	Diameters(mm)	Weight(kg)
AL1050 AL1070 AL1080	Plastic Spool	DIN 300	1.00 to 2.40	7
		DIN 320	1.00 to 2.40	10
	Iron Basket	BS 300	1.00 to 2.40	7
		BS 415	1.00 to 2.40	12
	Coil	Id 300-500	1.80 to 5.00	20 to 50
	Drum		1.00 to 1.60	40 to 80

NICKEL ALLOY WIRE

Alloy	Packing	Size	Diameters(mm)	Weight(kg)
NMN NiCrMo3 NMN NiCr3	Plastic Spool	DIN 300	1.00 to 2.40	15
		DIN 320	1.00 to 2.40	20
	Iron Basket	BS 300	1.00 to 2.40	15
		BS 415	1.00 to 2.40	25
	Coil	Id 300-500	1.80 to 5.00	40 to 150
	Drum		1.00 to 1.60	150 to 200

MECHANICAL PROPERTIES

CARATTERISTICHE MECCANICHE - CARACTERISTIQUES MECANIQUES - MECHANISCHE EIGENSCHAFTEN

As required by customer

Secondo richiesta del cliente

Selon spécification

nach Kundenwunsch

PACKING FOR METALLIZING/THERMAL SPRAY COATING WIRE

IMBALLO PER METALLIZZAZIONE/TERMICHE SPRAY COATING FILO - EMBALLAGE POUR MÉTALLISATION/THERMAL SPRAY COATING WIRE -

VERPACKUNG FÜR DIE METALLISIERUNG/THERMAL SPRAY COATING WIRE



Other sizes, qualities and packaging are available upon request

Altri diametri, leghe ed imballi sono disponibili a richiesta

Selon vos demandes, nous pouvons réaliser d'autres diametres alliages et conditionnements

Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage

ALUMINIUM WIRE

FILO DI ALLUMINIO

FIL D'ALUMINIUM

ALUMINIUM DRAHT

NOVAMETAL  GROUP

PRODUCT AVAILABILITY

DISPONIBILITÀ PRODOTTO - PRODUITS DISPONIBLES - VERFÜGBARE WERKSTOFFE

AL	W.Nr.	DIN	AFNOR
1050	3.0255	Al99.5	A5
5019	3.3555	AlMg5	A-G5
5005	3.3315	AlMg1	
5051	3.3326	AlMg1.8	A-G2
5052	3.3523	AlMg2.5	A-G2.5C
5082	3.3345	AlMg4.5	
5154	3.3536	AlMg3.5	A-G3C
5754	3.3536	AlMg3	A-G3M
6101	3.3206	AlMgSi0.5	A-GS
6082	3.2315	AlMgSi1	A-SGMO.7



DIAMETERS

DIAMETRI - DIAMETRES - DURCHMESSER

Standard from 0.80mm to 8.00mm

Larger/smaller diameters available on request
 Diametri maggiori/minori fornibili su richiesta
 Diamètres supérieurs/inferieurs sont livrés sur demande
 Grössere/kleinere Abmessungen auf Anfrage

SURFACE FINISHES/COATINGS

STATO SUPERFICIALE - ÉTAT DE SURFACE - OBERFLÄCHENZUSTAND

Bright	Lucido	Poli Brillant	hellblank
White annealed	Ricotto bianco	Recuit blanc	weissgeglüht

MECHANICAL PROPERTIES

CARATTERISTICHE MECCANICHE - CARACTERISTIQUES MECANIKES - MECHANISCHE EIGENSCHAFTEN

Novametal	USA - F	UK	D
Annealed - Ricotto - Recuit - geglüht	0	0	.10
1/4 Hard - 1/4 Crudo - 1/4 Écroui - 1/4 hart	H12 (H22 to H32)	H2	.24
Half hard - Semicrudo - 1/2 Écroui - halbhart	H14 (H24 to H32)	H4	.26
3/4 Hard - 3/4 Crudo - 3/4 Écroui - 3/4 hart	H16 (H26 to H36)	H6	.28
Hard drawn - Crudo - Écroui - hartgezogen	H18 (H28 to H38)	H8	.30

ALUMINIUM WIRE

FILO DI ALLUMINIO

FIL D'ALUMINIUM

ALUMINIUM DRAHT

NOVAMETAL  GROUP

PACKING FOR ALUMINIUM WIRE

IMBALLO ALLUMINIO PER FILO - EMBALLAGE FIL D'ALUMINIUM
VERPACKUNG FÜR ALUMINIUMDRAHT

CARDBOARD COIL (Z2)

BOBINA (Z2) - BOBINE TRANCANNÉE (Z2) - PAPPEZYLINDER (Z2)

Ø mm	1.90 to 5.50	1.90 to 5.50
Weight (kg)	100 to 200	200 to 400
Ø int. mm	380	500



STEEL REEL K760

ROCCA DI FERRO - TOURET MÉTALLIQUE - STAHLSPULE

Ø mm	0.80 to 2.70
Weight (kg)	50 to 100



COIL

MATASSA - COURONNE - RINGE

Ø mm	2.00 to 6.00
Weight (kg)	20 to 50
Ø int. mm	560



SPIDER

BADERNA - DÉVIDOIR - KRONENSTOCK

Ø mm	2.00 to 6.00
Weight (kg)	150 to 300



WIRE BASKET

CESTELLO - BOBINE MÉTALLIQUE - KORBSPULE

Ø mm	0.80 to 2.40
Weight (kg)	7 max



GRADES AND CHEMICAL COMPOSITION

MARCHE E COMPOSIZIONE CHIMICA - NUANCES ET COMPOSITIONS CHIMIQUES - WERKSTOFFE UND CHEMISCHE ZUSAMMENSETZUNG

AL	W.Nr.	DIN	AFNOR	Si	Fe	Cu	Mn	Mg	Cr	Zn	Ti	Al	Others
1050	3.0255	Al99.5	A5	0.17 max	0.27 max	0.02 max	0.03 max	0.03 max	0.03 max	0.05 max	0.02 max	99.50	0.15 max
5019	3.3555	AlMg5	A-G5	0.15 max	0.30 max	0.05 max	0.10 to 0.16	4.50 to 5.00	0.05 to 0.15	0.10 max	0.05 max		0.15 max
5005	3.3315	AlMg1		0.30 max	0.70 max	0.20 max	0.20 max	0.50 to 1.10	0.10 max	0.25 max			
5051	3.3326	AlMg1.8	A-G2	0.25 max	0.35 max	0.05 max	0.20 max	1.80 to 2.10	0.10 max	0.10 max	0.05 max		0.15 max
5052	3.3523	AlMg2.5	A-G2.5C	0.20 max	0.35 max	0.05 max	0.10 max	2.20 to 2.80	0.15 to 0.30	0.10 max	0.05 max		0.15 max
5082	3.3345	AlMg4.5		0.15 max	0.30 max	0.05 max	0.10 max	4.20 to 4.80	0.10 max	0.10 max	0.05 max		0.15 max
5154	3.3536	AlMg3.5	A-G3C	0.15 max	0.35 max	0.10 max	0.20 to 0.40	3.10 to 3.70	0.10 max	0.10 max	0.05 max		0.15 max
5754	3.3536	AlMg3	A-G3M	0.15 max	0.30 max	0.05 max	0.20 to 0.35	2.70 to 3.30	0.15 max	0.10 max	0.05 max		0.15 max
6101	3.3206	AlMgSi0.5	A-GS	0.50 to 0.60	0.30 max	0.05 max	0.05	0.45 to 0.55	0.05 max	0.05 max	0.05 max		0.15 max
6082	3.2315	AlMgSi1	A-SGM0.7	0.90 to 1.10	0.30 max	0.10 max	0.04 to 0.06	0.90 to 1.20	0.10 max	0.10 max	0.05 max		0.15 max

Other sizes, qualities and packaging are available upon request

Altri diametri, leghe ed imballi sono disponibili a richiesta

Selon vos demandes, nous pouvons réaliser d'autres diamètres alliages et conditionnements

Andere Abmessungen, Qualitäten und Verpackungen auf Anfrage

NOVAMETAL AROUND THE WORLD

NOVAMETAL NEL MONDO

NOVAMETAL DANS LE MONDE

NOVAMETAL WELTWEIT

NOVAMETAL  GROUP



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