



CONSUMABILI PER LA SALDATURA
WELDING CONSUMABLES



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Una storia di crescita *A history of growth*

INE è innanzi tutto il racconto di una grande crescita: da una piccola attività produttiva di elettrodi per la saldatura nata nel 1950 alla realtà di oggi, un gruppo presente in cinque continenti, riconosciuto come un punto di riferimento per la completezza della gamma, la qualità dei prodotti e servizi, l'attenzione alla Clientela. Una realtà consolidata dotata di un impianto all'avanguardia in Europa e con ampia capacità produttiva.

la ricerca costante di soluzioni tecniche finalizzate a garantire sempre la massima soddisfazione del Cliente. Ricerca che oggi continua con l'entusiasmo, competenza e l'impegno di sempre.

The history of INE is, first and foremost, the story of an incredible expansion: from a small manufacturing business founded in 1950 to the corporation it is today, a group that's present in five continents, recognised as a benchmark for the completeness of its range, the quality of its products and services, its care of the Clientele. An established company further strengthened by its pioneering

expansion and its large production capacity of wire for an expansion that has continued for over half a century and which has as its leitmotiv the constant search for technical and commercial solutions aimed at ensuring total satisfaction of the client at all times. A quest which continues today with the same enthusiasm, skill and commitment as in the past.





Innovazione per l'ambiente *Environmentally friendly*

Frutto del costante impegno di **INE** nella ricerca per la sostenibilità dei processi produttivi e la sicurezza dei lavoratori, i prodotti per saldatura non ramati riducono le emissioni di fumi, rispettando la salute degli operatori e l'ambiente. Inoltre essi garantiscono diversi altri vantaggi strategici.

Il filo per saldatura **INE**, nella versione non ramata, è un filo tecnicamente avanzato prodotto in Italia secondo i più elevati standard qualitativi! Alcuni dei motivi principali per utilizzare il filo INE non ramato sono:

1. **Ridotta manutenzione della torcia.** Il filo INE non ramato riduce i tempi di manutenzione della torcia grazie al ridotto intasamento dei tubetti e delle guaine. Questo consente un tempo d'arco maggiore, riduzione dei tempi morti e quindi una maggiore produttività.
2. **Nessun contenuto di rame nei fumi di saldatura.** Durante la saldatura parte della copertura in rame dei fili ramati convenzionali si volatilizza causando un potenziale pericolo per l'ambiente sotto forma di fumi di rame. La versione non ramata elimina questa possibilità.
3. **Scorrimento.** La capacità di un filo di scorrere liberamente all'interno di una torcia e di una guaina è estremamente importante. I costi possono aumentare considerevolmente a causa delle continue interruzioni dovute a problemi di scorrimento. Il non ramato della INE è caratterizzato da una lavorazione delle superficie unica e particolare che rappresenta il valore aggiunto rispetto ai fili della concorrenza.
4. **Maggiore deposito.** Il filo INE non ramato è stato sviluppato in accordo con la richiesta attuale di velocità di saldatura più elevate. La stabilità d'arco combinata con l'alta velocità di saldatura e spruzzi ridotti assicura il massimo risultato di produzione.

Altri vantaggi aggiuntivi includono:

- Meno spruzzi significa minore pulizia del pezzo saldato
- Adatto a velocità di saldatura elevate
- Migliore stabilità d'arco
- Eccellente aspetto dei cordoni di saldatura

AMBIENTE, SICUREZZA, COMPETITIVITÀ:
TANTI BUONI MOTIVI PER SCEGLIERE **WE GO GREEN**

*The result of **INE's** constant commitment in the search for sustainable production processes and worker safety, copper free welding consumables reduce fume emissions, while respecting the health of the operators and of the environment. In addition, they provide other strategic advantages.*

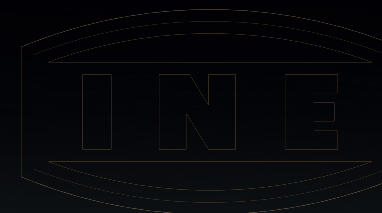
***INE** copper free welding wire is a technically advanced wire manufactured in Italy to the highest standards, ensuring maximum productivity and performance! Some of the main reasons for using INE copper free are:*

1. **Reduced torch maintenance.** *INE copper free wire cuts down on torch maintenance time by reducing clogging of tips and liners. This results in more arc time, less down time and so greater production.*
2. **No copper fumes.** *During welding, part of the copper coating on conventional copper coated wires volatilises to cause a potential environment hazard in the form of copper fume. INE copper free eliminates this possibility.*
3. **Feedability.** *The ability of a wire to be pushed freely through a commercial torch and liner is extremely important. Costs can rise dramatically if stoppages occur due to poor feedability. INE copper free uses a unique coating that gives it the leading edge over competitive wires.*
4. **Higher deposition.** *INE copper free wire has been developed in line with today's demands for higher welding speeds. Combined arc stability with high speed welding and reduced spatter, ensure maximum production output.*

Further added benefits include:

- Low spatter means reduced post weld cleaning
- Suitable for high speed welding
- Excellent looking weld beads

ENVIRONMENT, SAFETY, COMPETITIVENESS:
MANY GOOD REASONS FOR SAYING **"WE GO GREEN"**



**FILI E BACCHETTE PER SALDATURA DI ACCIAI
AL CARBONIO E BASSO LEGATI**

**MIG/MAG WIRES AND TIG RODS FOR WELDING
OF MILD AND LOW-ALLOY STEELS**



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FILI PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
MIG/MAG WIRES FOR WELDING OF MILD AND LOW-ALLOY STEELS



ACCIAIO AL CARBONIO / MILD STEEL WELDING WIRES

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INEFIL 13.7 RAMATO / COPPER COATED NON RAMATO / COPPER FREE BRONZATO / BRONZE	AWS A 5.18/ASME SFA 5.18: ER70S-3 AWS A 5.18M/ASME SFA 5.18M: ER48S-3 EN ISO 14341-A: G 42 2 M21 2Si EN ISO 14341-A: G 38 2 C1 2Si	C 0.07 Si 0.60 Mn 1.20	0,6	C1	400	480	26	-20°C 50 J			

FILI PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
MIG/MAG WIRES FOR WELDING OF MILD AND LOW-ALLOY STEELS





















BASSOLEGATI / LOW ALLOY WELDING WIRES

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS	
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)			
INEFIL CU RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-G AWS A 5.28M/ASME SFA 5.28M: ER55S-G EN ISO 14341-A: G 50 4 M21 Z (EN ISO 16834-A: G Mn3Ni1Cu)	C 0.08 Si 0.75 Mn 1.40 Ni 0.70 Cr 0.30 Cu 0.40	0,8 0,9 1,2 1,6	M21	530	620	26	-20°C 90 J -40°C 70 J -50°C 50 J				

FILI PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
MIG/MAG WIRES FOR WELDING OF MILD AND LOW-ALLOY STEELS




BASSOLEGATI / LOW ALLOY WELDING WIRES

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS	
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)			
INEFIL 80 Ni 3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-Ni3 AWS A 5.28M/ASME SFA 5.28M: ER55S-Ni3 EN ISO 14341-B: G 57P 7 M22 SN71	C 0.10 Si 0.60 Mn 1.00 Ni 3.50	0,8 1,0 1,2 1,6	M22	550 (T)	630 (T)	25 (T)	-50°C 60 J -60°C 50 J -75°C 35 J				
INEFIL G2MO RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER70S-A1 AWS A 5.28M/ASME SFA 5.28M: ER49S-A1 EN ISO 14341-A: G 46 2 M21 2Mo EN ISO 21952-A: G MoSi	C 0.09 Si 0.60 Mn 1.20 Mo 0.50	0,8 1,0 1,2 1,6	M21	500	620	23	R.T. 150 J 0°C 130 J -20°C 90 J		TÜV DB		
				M21	480 (T)	600 (T)	25 (T)	R.T. 170 J (T) 0°C 150 J (T) -20°C 100 J (T)				
INEFIL D2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-D2 AWS A 5.28M/ASME SFA 5.28M: ER55S-D2 AWS A 5.28/ASME SFA 5.28: ER90S-D2 AWS A 5.28M/ASME SFA 5.28M: ER62S-D2 EN ISO 14341-A: G 50 5 M21 4Mo	C 0.08 Si 0.70 Mn 1.80 Mo 0.50	0,8 1,0 1,2 1,6	M21	560	650	22	0°C 120 J -40°C 75 J -50°C 60 J		TÜV		
INEFIL CROMO 1 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-G AWS A 5.28M/ASME SFA 5.28M: ER55S-G EN ISO 21952-A: G CrMo1Si	C 0.10 Si 0.60 Mn 1.10 Cr 1.20 Mo 0.50	0,8 1,0 1,2 1,6	M21	460 (T)	570 (T)	23 (T)	R.T. 150 J (T)		TÜV DB		
INEFIL CROMO 2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER90S-G AWS A 5.28M/ASME SFA 5.28M: ER62S-G EN ISO 21952-A: G CrMo2Si	C 0.09 Si 0.60 Mn 1.00 Cr 2.60 Mo 1.00	0,8 1,0 1,2 1,6	M21	540 (T)	650 (T)	23 (T)	R.T. 170 J (T)		TÜV		
INEFIL B2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-B2 AWS A 5.28M/ASME SFA 5.28M: ER55S-B2 EN ISO 21952-B: G 55 M22 1CM	C 0.08 Si 0.60 Mn 0.60 Cr 1.30 Mo 0.50	0,8 1,0 1,2 1,6	M22	480 (T)	570 (T)	21 (T)	R.T. 150 J		TÜV		
INEFIL B2 L RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER70S-B2L AWS A 5.28M/ASME SFA 5.28M: ER49S-B2L EN ISO 21952-B: G 52 M22 1CML	C 0.03 Si 0.60 Mn 0.60 Cr 1.30 Mo 0.50	0,8 1,0 1,2 1,6	M22	460 (T)	570 (T)	23 (T)	R.T. 150 J (T)				
INEFIL B3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER90S-B3 AWS A 5.28M/ASME SFA 5.28M: ER62S-B3 EN ISO 21952-B: G 62 M22 2C1M	C 0.08 Si 0.60 Mn 0.60 Cr 2.50 Mo 1.00	0,8 1,0 1,2 1,6	M22	560 (T)	650 (T)	20 (T)	R.T. 170 J (T)		TÜV		
INEFIL B3 L RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-B3L AWS A 5.28M/ASME SFA 5.28M: ER55S-B3L EN ISO 21952-B: G 55 M22 2C1ML	C 0.03 Si 0.60 Mn 0.60 Cr 2.50 Mo 1.00	0,8 1,0 1,2 1,6	M22	490 (T)	580 (T)	22 (T)	R.T. 170 J (T)				
INEFIL B6 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-B6 AWS A 5.28M/ASME SFA 5.28M: ER55S-B6 EN ISO 21952-A: G CrMo5Si	C 0.07 Si 0.40 Mn 0.50 Cr 5.80 Mo 0.55	0,8 1,0 1,2 1,6	M22	500 (T)	620 (T)	22 (T)	R.T. 70 J (T)		TÜV		
INEFIL B8 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-B8 AWS A 5.28M/ASME SFA 5.28M: ER55S-B8 EN ISO 21952-A: G CrMo9	C 0.07 Si 0.40 Mn 0.50 Cr 9.00 Mo 1.00	0,8 1,0 1,2 1,6	M22	500 (T)	630 (T)	23 (T)	R.T. 60 J (T)				

FILI PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
MIG/MAG WIRES FOR WELDING OF MILD AND LOW-ALLOY STEELS



BASSOLEGATI / LOW ALLOY WELDING WIRES

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INEFIL B9 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER90S-B9 AWS A 5.28M/ASME SFA 5.28M: ER62S-B9 EN ISO 21952-A: G CrMo91	C 0.09 Si 0.25 Mn 0.60 Cr 8.80 Mo 0.95 V 0.20 Ni 0.65 N 0.05 Nb 0.06	0,8 1,0 1,2 1,6	M12	590 (T)	680 (T)	19 (T)	R.T. 60 J (T)			
INEFIL B9LowNi NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER90S-B9 AWS A 5.28M/ASME SFA 5.28M: ER62S-B9	C 0.09 Si 0.20 Mn 0.60 Cr 8.80 Mo 0.95 V 0.20 Ni 0.30 N 0.04 Nb 0.05	0,8 1,0 1,2 1,6	M12	570 (T)	660 (T)	20 (T)	R.T. 50 J (T)			
INEFIL 4130 RAMATO / COPPER COATED NON RAMATO / COPPER FREE		C 0.30 Si 0.20 Mn 0.50 Cr 0.95 Mo 0.20	0,8 1,0 1,2 1,6	M21	890 (T)	1000 (T)	11 (T)				



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS	
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)			
INEFIL INOX 307 SI NON RAMATO / COPPER FREE	(AWS A 5.9/ASME SFA 5.9: ER307) (AWS A 5.9M/ASME SFA 5.9M: ER307) EN ISO 14343-A: G 18 8 Mn	C 0.05 Si 0.70 Mn 6.80 Ni 8.00 Cr 18.50 Mo 0.10	0,8 1,0 1,2	M13	490	650	34	R.T. > 47 J			TÜV DB	CE
INEFIL INOX 308 LSI NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER308LSi AWS A 5.9M/ASME SFA 5.9M: ER308LSi EN ISO 14343-A: G 19 9 L Si	C 0.025 Si 0.85 Mn 1.80 Ni 10.00 Cr 20.00 Mo 0.10	0,8 1,0 1,2	M13	440	580	42	R.T. > 47 J			TÜV DB	CE
INEFIL INOX 309 LSI NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER309LSi AWS A 5.9M/ASME SFA 5.9M: ER309LSi EN ISO 14343-A: G 23 12 L Si	C 0.02 Si 0.70 Mn 1.80 Ni 14.00 Cr 24.00 Mo 0.10	0,8 1,0 1,2	M13	440	560	40	R.T. > 47 J				
INEFIL INOX 310 NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER310 AWS A 5.9M/ASME SFA 5.9M: ER310 EN ISO 14343-A: G 25 20	C 0.10 Si 0.40 Mn 1.80 Ni 21.00 Cr 26.00 Mo 0.20	0,8 1,0 1,2	M13	355	610	35					
INEFIL INOX 312 NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER312 AWS A 5.9M/ASME SFA 5.9M: ER312 EN ISO 14343-A: G 29 9	C 0.10 Si 0.40 Mn 1.80 Ni 9.20 Cr 30.00 Mo 0.20	0,8 1,0 1,2	M13	450	660	22					
INEFIL INOX 316 LSI NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER316LSi AWS A 5.9M/ASME SFA 5.9M: ER316LSi EN ISO 14343-A: G 19 12 3 L Si	C 0.020 Si 0.80 Mn 1.70 Ni 12.20 Cr 18.50 Mo 2.50	0,8 1,0 1,2	M13	440	560	40	R.T. > 47 J			TÜV DB	CE
INEFIL AL5%SI - 4043 NON RAMATO / COPPER FREE	AWS A 5.10/ASME SFA 5.10: ER4043 AWS A 5.10M/ASME SFA 5.10M: R4043 EN ISO 18273: S AISi5 EN ISO 18273: S Al 4043	Mn 0.01 Si 5.00 Fe 0.14 Al Bal.	0,8 1,0 1,2	I1	40	150	10					CE
INEFIL AL5%MG - 5356 NON RAMATO / COPPER FREE	AWS A 5.10/ASME SFA 5.10: ER5356 AWS A 5.10M/ASME SFA 5.10M: R5356 EN ISO 18273: S AlMg5Cr(A) EN ISO 18273: S Al 5356	Mn 0.15 Mg 5.00 Fe 0.13 Cr 0.14 Al Bal.	0,8 1,0 1,2	I1	110	240	17					CE
INEFIL AL4%MG - 5183 NON RAMATO / COPPER FREE	AWS A 5.10/ASME SFA 5.10: ER5183 AWS A 5.10M/ASME SFA 5.10M: R5183 EN ISO 18273: S AlMg4,5Mn0,7(A) EN ISO 18273: S Al 5183	Mn 0.60 Mg 4.80 Fe 0.13 Cr 0.08 Al Bal.	0,8 1,0 1,2	I1	125	275	17					CE

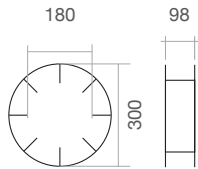
FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS



FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS

IMBALLI / PACKAGING

FILI MIG/MAG / MIG/MAG WIRES

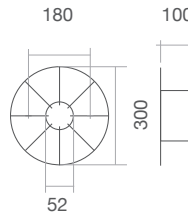


K 300

Ferro / Steel

Peso netto / Net weight

15 kg

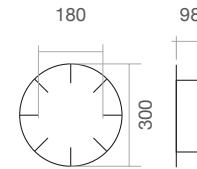


BS 300

Ferro / Steel

Peso netto / Net weight

15 Kg

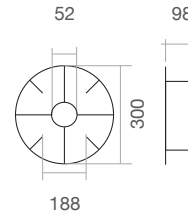


K 300

Ferro / Steel

Peso netto / Net weight

15 Kg

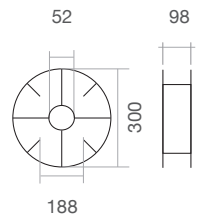


K 300 AMO

Ferro / Steel

Peso netto / Net weight

15 Kg

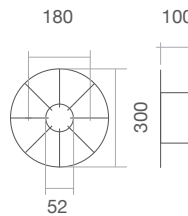
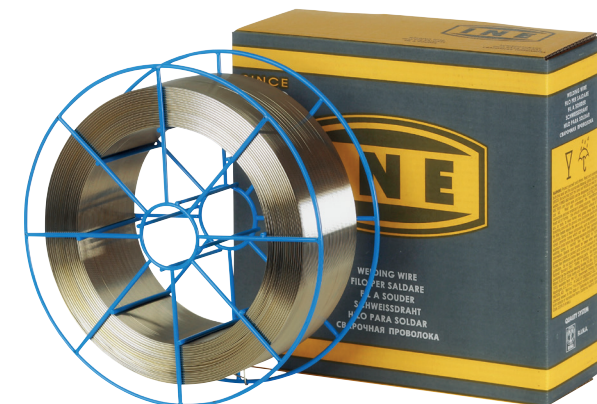


K 300 AMO

Ferro / Steel

Peso netto / Net weight

15 Kg

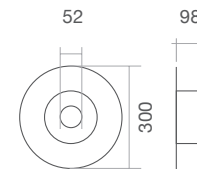


BS 300 BLU

Ferro / Steel

Peso netto / Net weight

15 Kg



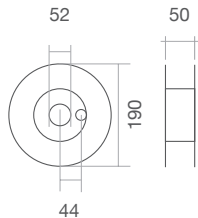
D 300

Plastica / Plastic

Peso netto / Net weight

15 Kg

FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS

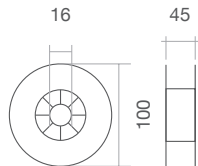
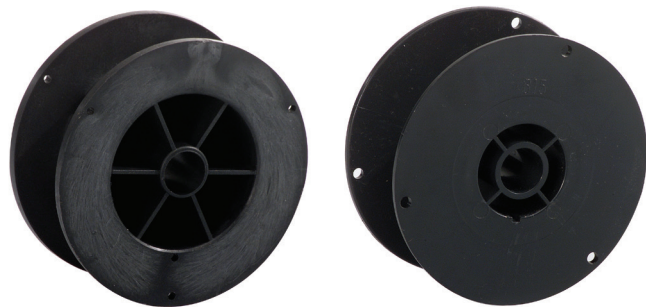


D 200

Plastica / Plastic

Peso netto / Net weight

5 Kg

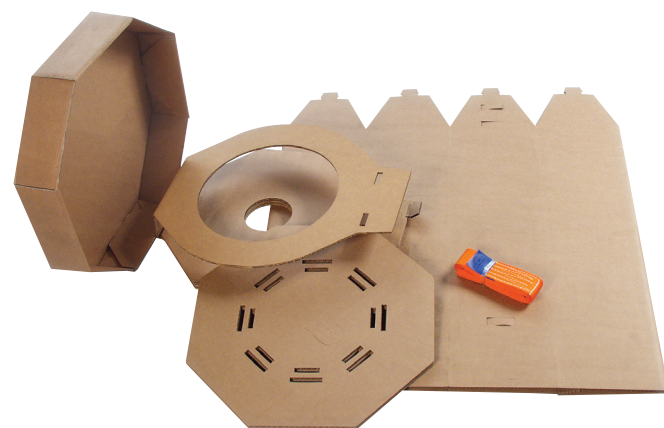


D 100

Plastica / Plastic

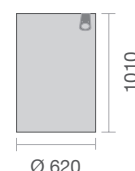
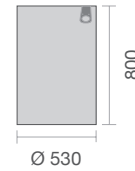
Peso netto / Net weight

0.8 / 1 Kg



**FUSTO OCTAPACK
OCTAPACK DRUM**

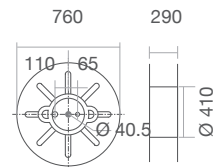
Fusti - P.O.P.



Peso netto / Net weight

250 Kg

350 / 500 kg

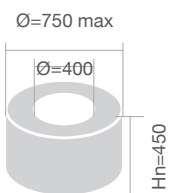


D 760 / H 760

Ferro / Steel

Peso netto / Net weight

~300 Kg



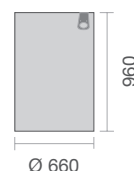
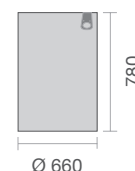
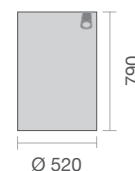
**MATASSA
COIL**

Peso netto / Net weight

300 - 500 Kg



**FUSTI - P.O.P
DRUMS**



Peso netto / Net weight

250 Kg

350 Kg

500 Kg



BOBINA SPOOL	NUMERO BOBINE NUMBER OF SPOOLS	DIMENSIONE PALETTA PALLET SIZE
15 Kg	72	80 x 120 x 95 H
25 Kg	40	80 x 120 x 90 H
5 Kg	200	80 x 120 x 92 H



BACCHETTE TIG PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
TIG RODS FOR WELDING OF MILD AND LOW-ALLOY STEELS



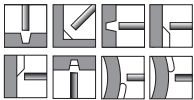

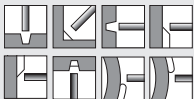




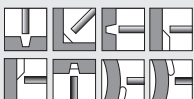
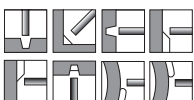

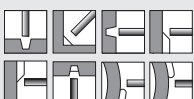

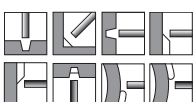
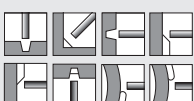

ACCIAIO AL CARBONIO / MILD STEEL TIG RODS

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETIG 13.7 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.18/ASME SFA 5.18: ER70S-3 AWS A 5.18M/ASME SFA 5.18M: ER48S-3 EN ISO 636-A: W 42 2 2Si	C 0.07 Si 0.60 Mn 1.10	1,2 1,6 2,0 2,4 3,2 4,0	I1	440	530	28	-20°C 150 J		CE	
INETIG RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.18/ASME SFA 5.18: ER70S-6 AWS A 5.18M/ASME SFA 5.18M: ER48S-6 EN ISO 636-A: W 46 4 3Si1	C 0.08 Si 0.80 Mn 1.45	1,2 1,6 2,0 2,4 3,2 4,0	I1	480	580	28	-20°C 120 J -30°C 90 J -40°C 70 J		TÜV DB	CE
INETIG 19.12 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.18/ASME SFA 5.18: ER70S-6 AWS A 5.18M/ASME SFA 5.18M: ER48S-6 EN ISO 636-A: W 46 5 4Si1	C 0.08 Si 0.90 Mn 1.70	1,2 1,6 2,0 2,4 3,2 4,0	I1	530	620	26	-20°C 140 J -30°C 110 J -40°C 80 J -50°C 60 J			
INETIG S2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.18/ASME SFA 5.18: ER70S-2 AWS A 5.18M/ASME SFA 5.18M: ER48S-2 EN ISO 636-A: W 46 4 2Ti	C 0.06 Si 0.50 Mn 1.20 Ti 0.10 Zr 0.09 Al 0.10	1,2 1,6 2,0 2,4 3,2 4,0	I1	490	600	28	-20°C 120 J -30°C 100 J -40°C 70 J		CE	
INETIG S4 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.18/ASME SFA 5.18: ER70S-4 AWS A 5.18M/ASME SFA 5.18M: ER48S-6 EN ISO 636-A: W 46 4 3Si1	C 0.08 Si 0.80 Mn 1.40	1,6 2,0 2,4 3,2 4,0	I1	480	580	28	-20°C 120 J -30°C 90 J -40°C 70 J			

BACCHETTE TIG PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
TIG RODS FOR WELDING OF MILD AND LOW-ALLOY STEELS



BASSOLEGATI / LOW ALLOY TIG RODS

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETIG 80 Ni 1 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-Ni1 AWS A 5.28M/ASME SFA 5.28M: ER55S-Ni1 EN ISO 636-A: W 46 5 3Ni1	C 0.10 Si 0.60 Mn 1.10 Ni 1.00	1,2 1,6 2,0 2,4 3,2 4,0	I1	510	600	26	-20°C 130 J -40°C 80 J -50°C 70 J			
INETIG 80 Ni 2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-Ni2 AWS A 5.28M/ASME SFA 5.28M: ER55S-Ni2 EN ISO 636-A: W 50 6 2Ni2	C 0.10 Si 0.55 Mn 1.00 Ni 2.30	1,2 1,6 2,0 2,4 3,2 4,0	I1	520	580	25	-20°C 150 J -40°C 100 J -60°C 80 J			
INETIG 80 Ni 3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-Ni3 AWS A 5.28M/ASME SFA 5.28M: ER55S-Ni3 EN ISO 636-B: W 57P 7 N71	C 0.10 Si 0.60 Mn 1.00 Ni 3.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	570 (T)	640 (T)	24 (T)	-50°C 90 J (T) -60°C 60 J (T) -75°C 40 J (T)			
INETIG G2MO RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER70S-A1 AWS A 5.28M/ASME SFA 5.28M: ER49S-A1 EN ISO 636-A: W 46 2 2Mo EN ISO 21952-A: W MoSi	C 0.09 Si 0.60 Mn 1.20 Mo 0.50	1,2 1,6 2,0 2,4 3,2 4,0	I1 I1	520 500 (T)	630 610 (T)	23 25 (T)	R.T. 200 J -20°C 80 J R.T. 220 J (T) -20°C 100 J (T)		TÜV DB	
INETIG D2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-D2 AWS A 5.28M/ASME SFA 5.28M: ER55S-D2 AWS A 5.28/ASME SFA 5.28: ER90S-D2 AWS A 5.28M/ASME SFA 5.28M: ER62S-D2 EN ISO 636-B: W 57A 5 4M31	C 0.08 Si 0.70 Mn 1.90 Mo 0.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	610	700	24	-40°C 40 J -50°C 35 J			
INETIG CROMO 1 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-G AWS A 5.28M/ASME SFA 5.28M: ER55S-G EN ISO 21952-A: W CrMo1Si	C 0.10 Si 0.60 Mn 1.10 Cr 1.20 Mo 0.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	490 (T)	590 (T)	26 (T)	R.T. 250 J (T)		TÜV DB	
INETIG CROMO 2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER90S-G AWS A 5.28M/ASME SFA 5.28M: ER62S-G EN ISO 21952-A: W CrMo2Si	C 0.10 Si 0.60 Mn 1.10 Cr 2.40 Mo 0.95	1,2 1,6 2,0 2,4 3,2 4,0	I1	500 (T)	610 (T)	23 (T)	R.T. 200 J (T)		TÜV	
INETIG B2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-B2 AWS A 5.28M/ASME SFA 5.28M: ER55S-B2 EN ISO 21952-B: W 55 I1 1CM	C 0.08 Si 0.60 Mn 0.60 Cr 1.30 Mo 0.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	490 (T)	590 (T)	25 (T)	R.T. 250 J (T)		TÜV	
INETIG B2 L RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER70S-B2L AWS A 5.28M/ASME SFA 5.28M: ER49S-B2L EN ISO 21952-B: W 52 I1 1CML	C 0.03 Si 0.60 Mn 0.60 Cr 1.30 Mo 0.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	450 (T)	560 (T)	23 (T)	R.T. 250 J (T)			
INETIG B3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER90S-B3 AWS A 5.28M/ASME SFA 5.28M: ER62S-B3 EN ISO 21952-B: W 62 I1 2C1M	C 0.08 Si 0.60 Mn 0.60 Cr 2.50 Mo 1.00	1,2 1,6 2,0 2,4 3,2 4,0	I1	570 (T)	650 (T)	22 (T)	R.T. 230 J (T)		TÜV	

BACCHETTE TIG PER SALDATURA DI ACCIAI AL CARBONIO E BASSO LEGATI
TIG RODS FOR WELDING OF MILD AND LOW-ALLOY STEELS



BASSOLEGATI / LOW ALLOY TIG RODS

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETIG B3 L RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: ER80S-B3L AWS A 5.28M/ASME SFA 5.28M: ER55S-B3L EN ISO 21952-B: W 55 I1 2C1ML	C 0.03 Si 0.60 Mn 0.60 Cr 2.50 Mo 1.00	1,2 1,6 2,0 2,4 3,2 4,0	I1	510 (T)	600 (T)	22 (T)	R.T. 200 J (T)			

BACCHETTE TIG PER ACCIAI INOX ED ALLUMINIO
STAINLESS STEEL AND ALUMINIUM TIG RODS



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETIG INOX 307 SI NON RAMATO / COPPER FREE	(AWS A 5.9/ASME SFA 5.9: ER307) (AWS A 5.9M/ASME SFA 5.9M: ER307) EN ISO 14343-A: W 18 8 Mn	C 0.07 Si 0.85 Mn 7.00 Ni 8.00 Cr 18.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	500	660	34				
INETIG INOX 308 LSi NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER308LSi AWS A 5.9M/ASME SFA 5.9M: ER308LSi EN ISO 14343-A: W 19 9 L Si	C 0.025 Si 0.85 Mn 1.80 Ni 10.00 Cr 20.00	1,2 1,6 2,0 2,4 3,2 4,0	I1	470	640	36	R.T. > 47 J			TÜV DB CE
INETIG INOX 309 LSi NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER309LSi AWS A 5.9M/ASME SFA 5.9M: ER309LSi EN ISO 14343-A: W 23 12 L Si	C 0.02 Si 0.70 Mn 1.80 Ni 14.00 Cr 24.00 Mo 0.10	1,2 1,6 2,0 2,4 3,2 4,0	I1	420	620	42	R.T. > 47 J			
INETIG INOX 310 NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER310 AWS A 5.9M/ASME SFA 5.9M: ER310 EN ISO 14343-A: W 25 20	C 0.10 Si 0.40 Mn 1.80 Ni 21.00 Cr 26.00 Mo 0.20	1,2 1,6 2,0 2,4 3,2 4,0	I1	360	620	34				
INETIG INOX 312 NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER312 AWS A 5.9M/ASME SFA 5.9M: ER312 EN ISO 14343-A: W 29 9	C 0.10 Si 0.40 Mn 1.80 Ni 9.20 Cr 30.00 Mo 0.20	1,2 1,6 2,0 2,4 3,2 4,0	I1	460	670	21				
INETIG INOX 316 LSi NON RAMATO / COPPER FREE	AWS A 5.9/ASME SFA 5.9: ER316LSi AWS A 5.9M/ASME SFA 5.9M: ER316LSi EN ISO 14343-A: W 19 12 3 L Si	C 0.020 Si 0.80 Mn 1.70 Ni 12.20 Cr 18.50 Mo 2.50	1,2 1,6 2,0 2,4 3,2 4,0	I1	490	670	34	R.T. > 47 J			TÜV DB CE
INETIG AL5%SI - 4043 NON RAMATO / COPPER FREE	AWS A 5.10/ASME SFA 5.10: ER4043 AWS A 5.10M/ASME SFA 5.10M: R4043 EN ISO 18273: S AISi5 EN ISO 18273: S Al 4043	Mn 0.01 Si 5.00 Fe 0.14 Al Bal.	1,2 1,6 2,0 2,4 3,2 4,0	I1	40	120	8				CE
INETIG AL5%MG - 5356 NON RAMATO / COPPER FREE	AWS A 5.10/ASME SFA 5.10: ER5356 AWS A 5.10M/ASME SFA 5.10M: R5356 EN ISO 18273: S AlMg5Cr(A) EN ISO 18273: S Al 5356	Mn 0.15 Mg 5.00 Fe 0.13 Cr 0.14 Al Bal.	1,2 1,6 2,0 2,4 3,2 4,0	I1	120	250	18				CE
INETIG AL4%MG - 5183 NON RAMATO / COPPER FREE	AWS A 5.10/ASME SFA 5.10: ER5183 AWS A 5.10M/ASME SFA 5.10M: R5183 EN ISO 18273: S AlMg4,5Mn0,7(A) EN ISO 18273: S Al 5183	Mn 0.60 Mg 5.00 Fe 0.13 Cr 0.08 Al Bal.	1,2 1,6 2,0 2,4 3,2 4,0	I1	130	300	25				CE

FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS

BACCHETTE PER SALDATURA OSSIACETILENICA
GAS WELDING RODS

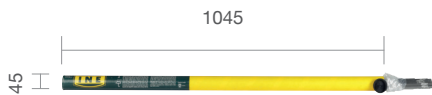


PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INEGAS G1 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.2/ASME SFA 5.2: R45 AWS A 5.2M/ASME SFA 5.2M: RM30 EN 12536: O I	C 0.07 Si 0.07 Mn 0.50	1,2			500					
			1,6								
			2,0								
			2,4								
			3,2								
			4,0								
INEGAS G2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.2/ASME SFA 5.2: R60 AWS A 5.2M/ASME SFA 5.2M: RM40 EN 12536: O II	C 0.10 Si 0.20 Mn 1.00	1,2			520					
			1,6								
			2,0								
			2,4								
			3,2								
			4,0								
INEGAS G4 RAMATO / COPPER COATED NON RAMATO / COPPER FREE		C 0.10 Si 0.15 Mn 1.00 Mo 0.50	1,2								
			1,6								
			2,0								
			2,4								
			3,2								
			4,0								

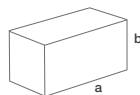
FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS



**TUBO
TUBE**



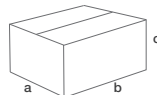
Peso netto / Net weight 5 Kg



a 1060 mm
b 390 mm

BOX

Peso netto / Net weight 250 Kg / 50 tubes



a 700 mm
b 1040 mm
c 362 mm

BOX

Peso netto / Net weight 500 Kg / 100 tubes

FILI PER SALDATURA IN ARCO SOMMERSO
SUBMERGED ARC WELDING WIRES



ACCIAIO AL CARBONIO / MILD STEEL SUB ARC WIRES

PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS	FLUSSO CONSIGLIATO RECOMMENDED FLUX
INESUB S1 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.17/ASME SFA 5.17: EL12 AWS A 5.17M/ASME SFA 5.17M: EL12 EN ISO 14171-A: S1	C 0.06 Si 0.07 Mn 0.50	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX MP
INESUB S2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.17/ASME SFA 5.17: EM12K AWS A 5.17M/ASME SFA 5.17M: EM12K EN ISO 14171-A: S2	C 0.10 Si 0.12 Mn 1.00	1,6 2,0 2,4 3,2 4,0		RINA (INEFLUX MP) TÜV	INEFLUX MP
INESUB S2Si RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.17/ASME SFA 5.17: EM12K AWS A 5.17M/ASME SFA 5.17M: EM12K EN ISO 14171-A: S2Si	C 0.10 Si 0.20 Mn 1.00	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX MP
INESUB S3Si RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.17/ASME SFA 5.17: EH12K AWS A 5.17M/ASME SFA 5.17M: EH12K EN ISO 14171-A: S3Si	C 0.10 Si 0.30 Mn 1.70	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX MP

BASSOLEGATI / LOW ALLOY SUB ARC WIRES

INESUB S2MO RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EA2 AWS A 5.23M/ASME SFA 5.23M: EA2 EN ISO 14171-A: S2Mo	C 0.10 Si 0.10 Mn 1.10 Mo 0.55	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX MP
INESUB EA3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EA3 AWS A 5.23M/ASME SFA 5.23M: EA3 EN ISO 14171-A: S4Mo	C 0.10 Si 0.15 Mn 2.00 Mo 0.55	1,6 2,0 2,4 3,2 4,0			INEFLUX MP INEFLUX BLKV
INESUB S3NIMO RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EG AWS A 5.23M/ASME SFA 5.23M: EG EN ISO 26304-A: S3Ni1Mo	C 0.10 Si 0.15 Mn 1.50 Mo 0.50 Ni 1.00	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV
INESUB EF3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EF3 AWS A 5.23M/ASME SFA 5.23M: EF3 EN ISO 26304-B: SUN2M33	C 0.15 Si 0.15 Mn 2.30 Mo 0.50 Ni 0.90	1,6 2,0 2,4 3,2 4,0			INEFLUX BLKV
INESUB EB2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB2 AWS A 5.23M/ASME SFA 5.23M: EB2 EN ISO 24598-A: S CrMo1	C 0.12 Si 0.15 Mn 0.80 Cr 1.10 Mo 0.50	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV
INESUB EB2R NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB2R AWS A 5.23M/ASME SFA 5.23M: EB2R EN ISO 24598--A: S CrMo1	C 0.12 Si 0.15 Mn 0.80 Cr 1.10 Mo 0.50	1,6 2,0 2,4 3,2 4,0			INEFLUX BLKV

FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS

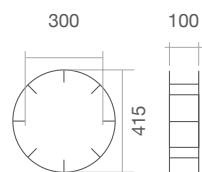
FILI PER SALDATURA IN ARCO SOMMERSO
SUBMERGED ARC WELDING WIRES



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS	FLUSSO CONSIGLIATO RECOMMENDED FLUX
INESUB EB3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB3 AWS A 5.23M/ASME SFA 5.23M: EB3 EN ISO 24598-A: S CrMo2	C 0.12 Si 0.15 Mn 0.60 Cr 2.50 Mo 1.00	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV
INESUB EB3R NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB3R AWS A 5.23M/ASME SFA 5.23M: EB3R EN ISO 24598-A: S CrMo2	C 0.12 Si 0.15 Mn 0.60 Cr 2.50 Mo 1.00	1,6 2,0 2,4 3,2 4,0			INEFLUX BLKV
INESUB EB6 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB6 AWS A 5.23M/ASME SFA 5.23M: EB6 EN ISO 24598-A: S CrMo5	C 0.07 Si 0.40 Mn 0.50 Cr 5.60 Mo 0.55	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV
INESUB EB8 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB8 AWS A 5.23M/ASME SFA 5.23M: EB8 EN ISO 24598-A: S CrMo9	C 0.07 Si 0.35 Mn 0.50 Cr 9.00 Mo 1.00	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV-9CR
INESUB EB9 NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB91 AWS A 5.23M/ASME SFA 5.23M: EB91 EN ISO 24598-A: S CrMo91	C 0.10 Si 0.20 Mn 0.60 Cr 8.80 Mo 0.95 V 0.20 Ni 0.60 N 0.045 Nb 0.06	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV-9CR
INESUB EB9LowNi NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EB91 AWS A 5.23M/ASME SFA 5.23M: EB91	C 0.09 Si 0.20 Mn 0.60 Cr 8.80 Mo 0.95 V 0.20 Ni 0.03 N 0.05 Nb 0.08	1,6 2,0 2,4 3,2 4,0			INEFLUX BLKV-9CR
INESUB S2Ni1 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: ENi1 AWS A 5.23M/ASME SFA 5.23M: ENi1 EN ISO 14171-A: S2Ni1	C 0.10 Si 0.15 Mn 1.00 Ni 0.95	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX MP INEFLUX BLKV
INESUB S2Ni2 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: ENi2 AWS A 5.23M/ASME SFA 5.23M: ENi2 EN ISO 14171-A: S2Ni2	C 0.10 Si 0.15 Mn 1.00 Ni 2.25	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV
INESUB S2Ni3 RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: ENi3 AWS A 5.23M/ASME SFA 5.23M: ENi3 EN ISO 14171-A: S2Ni3	C 0.10 Si 0.15 Mn 1.00 Ni 3.50	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX BLKV
INESUB S2CU RAMATO / COPPER COATED NON RAMATO / COPPER FREE	AWS A 5.23/ASME SFA 5.23: EG AWS A 5.23M/ASME SFA 5.23M: EG EN ISO 14171-A: SZ	C 0.10 Si 0.25 Mn 1.00 Ni 0.75 Cr 0.20 Cu 0.45	1,6 2,0 2,4 3,2 4,0		TÜV	INEFLUX MP

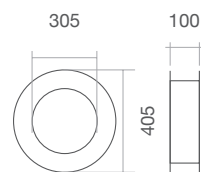
BASSOLEGATI / LOW ALLOY SUB ARC WIRES

FILI E BACCHETTE PER SALDATURA / WELDING WIRES AND TIG RODS



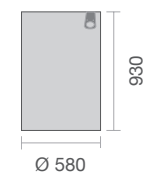
K 415/25
Ferro / Steel

Peso netto / Net weight 25 - 27 Kg



D 400/25
Plastica / Plastic

Peso netto / Net weight 25 Kg



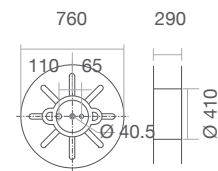
**FUSTI - P.O.P
DRUM**

Peso netto / Net weight ~300 Kg



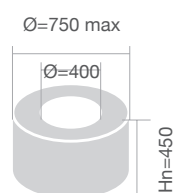
PALLET

BOBINA SPOOL	NUMERO BOBINE NUMBER OF SPOOLS	DIMENSIONE PALETTA PALLET SIZE
15 Kg	72	80 x 120 x 95 H
25 Kg	40	80 x 120 x 90 H



D 760 / H 760
Ferro / Steel

Peso netto / Net weight ~300 Kg



**MATASSA
COIL**

Peso netto / Net weight 300 - 500 Kg



**4 FUSTI / DRUMS
250 KG**

105 x 105 x 91 H



**2 FUSTI / DRUMS
350 KG**

80 x 120 x 92 H



FILI ANIMATI FLUX CORED WIRES



46

FILO ANIMATO RUTILE
RUTILE FLUX CORED WIRE

48

FILO ANIMATO CON POLVERE DI FERRO
METAL CORED WIRE

50

FILO ANIMATO BASICO
BASIC FLUX CORED WIRE

52

FILO ANIMATO CON POLVERE DI FERRO DA RICARICA
METAL CORED WIRE FOR HARD FACING APPLICATION

54

FILO ANIMATO AUTOPROTETTO SENZA GAS
SELF-SHIELDED CORED WIRE

FILO ANIMATO RUTILE
RUTILE FLUX CORED WIRE



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETUB R70T1 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E70T-1M AWS A 5.20M/ASME SFA 5.20M: E490T-1M AWS A 5.36: E70T1-M21A0-CS1 EN ISO 17632-A: T 42 2 R M21 3 H5	C 0.08 Si 0.50 Mn 1.45	1,0 1,2 1,4 1,6	M21	520	570	26	-20°C 50 J			
INETUB R71T1-CO2 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-1C AWS A 5.20M/ASME SFA 5.20M: E491T-1C AWS A 5.36: E71T1-C1A0-CS1 EN ISO 17632-A: T 46 2 P C1 2 H5	C 0.05 Si 0.45 Mn 1.3	1,0 1,2 1,4 1,6	C1	510	570	25	-20°C 70 J -30°C 45 J		ABS LRS RINA DNV	
INETUB R71T1 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-1M J AWS A 5.20M/ASME SFA 5.20M: E491T-1M AWS A 5.36: E71T1-M21A2-CS1 EN ISO 17632-A: T 46 4 P M21 2 H5	C 0.06 Si 0.50 Mn 1.45	1,0 1,2 1,4 1,6	M21	550	600	24	-20°C 95 J -40°C 50 J		ABS LRS RINA DNV TÜV DB	CE
INETUB R81T1-Ni1 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T1-Ni1M J AWS A 5.29M/ASME SFA 5.29M: E551T1-Ni1M AWS A 5.36: E81T1-M21A2-Ni1 EN ISO 17632-A: T 46 4 1Ni P M21 2 H5	C 0.045 Si 0.40 Mn 1.35 Ni 0.90	1,0 1,2 1,4 1,6	M21	550	625	25	-20°C 110 J -30°C 100 J -40°C 85 J			
INETUB R81T1-Ni2 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T1-Ni2M AWS A 5.29M/ASME SFA 5.29M: E551T1-Ni2M AWS A 5.36: E81T1-M21A2-Ni2 EN ISO 17632-A: T 46 6 2Ni P M21 2 H5	C 0.05 Si 0.30 Mn 0.85 Ni 2.25	1,0 1,2 1,4 1,6	M21	540 (T)	630 (T)	26	-20°C 105 J -40°C 90 J -60°C 50 J			
INETUB R81T1-Ni3 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T1-GM AWS A 5.29M/ASME SFA 5.29M: E551T1-GM AWS A 5.36: E81T1-M21A6-Ni3 EN ISO 17632-A: T 46 8 3Ni P M21 2 H5	C 0.05 Si 0.30 Mn 1.20 Ni 3.20	1,0 1,2 1,4 1,6	M21	480 (T)	620 (T)	24	-60°C 70 J			
INETUB R81T1-B2 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T1-B2M AWS A 5.29M/ASME SFA 5.29M: E551T1-B2M AWS A 5.36: E81T1-M21PZ-B2 EN ISO 17634-A: T CrMo1 P M21	C 0.08 Si 0.40 Mn 1.00 Cr 1.20 Mo 0.50	1,0 1,2 1,4 1,6 1,4	M21	490 (T)	570 (T)	22	R.T. 150 J			
INETUB R91T1-B3 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E91T1-B2M AWS A 5.29M/ASME SFA 5.29M: E621T1-B2M AWS A 5.36: E91T1-M21PZ-B3 EN ISO 17634-A: T CrMo2 P M21	C 0.08 Si 0.40 Mn 1.00 Cr 2.20 Mo 1.00	1,0 1,2 1,4 1,6 1,4	M21	570 (T)	650 (T)	20	R.T. 150 J			

FILO ANIMATO CON POLVERE DI FERRO
METAL CORED WIRE



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETUB M71TG NON RAMATO / COPPER FREE	AWS A 5.18/ASME SFA5.18: E70C-6M H4 AWS A 5.18M/ASME SFA5.18M: E48C-6M H4 AWS A 5.36: E71T15-M21A4-CS1 EN ISO 17632-A: T 46 4 M M21 2 H5	C 0.05 Si 0.60 Mn 1.50	1,0 1,2 1,4 1,6	M21	500	575	26	-20°C 120 J -40°C 100 J -60°C 60 J			ABS LRS RINA DNV TÜV DB
INETUB M71TG-CU NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA5.28: E80C-W2 AWS A 5.28M/ASME SFA5.28M: E55C-W2 AWS A 5.36: E80T15-M21A2-W2 EN ISO 17632-A: T 46 3 Z M M21 2 H5	C 0.05 Si 0.60 Mn 1.20 Cr 0.50 Ni 0.50 Cu 0.50	1,0 1,2 1,4 1,6	M21	535	615	25	-30°C 50 J			
INETUB M81TG-A1 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E80C-G AWS A 5.28M/ASME SFA 5.28M: E55C-G AWS A 5.36: E80T15-M21AG-A1 EN ISO 17632-A: T 46 4 Mo M M21 2 H5	C 0.05 Si 0.40 Mn 1.00 Mo 0.50	1,0 1,2 1,4 1,6	M21	470	560	22	-20°C 80 J			
INETUB M81TG-Ni1 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E80C-Ni1 AWS A 5.28M/ASME SFA 5.28M: E55C-Ni1 AWS A 5.36: E80T15-M21A4-Ni1 EN ISO 17632-A: T 46 4 1Ni M M21 2 H5	C 0.05 Si 0.30 Mn 1.30 Ni 0.95	1,0 1,2 1,4 1,6	M21	500	605	26	-20°C 95 J -40°C 50 J			
INETUB M81TG-Ni2 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E80C-Ni2 AWS A 5.28M/ASME SFA 5.28M: E55C-Ni2 AWS A 5.36: E80T15-M21A6-Ni2 EN ISO 17632-A: T 46 6 2Ni M M21 2 H5	C 0.05 Si 0.30 Mn 1.00 Ni 2.20	1,0 1,2 1,4 1,6	M21	520	630	26	-20°C 135 J -40°C 90 J -60°C 70 J			
INETUB M91TG-B3 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E90C-B3 AWS A 5.28M/ASME SFA 5.28M: E62C-B3 AWS A 5.36: E91T15-M21PZ-B3 EN ISO 17634-A: T CrMo2 M M21 1 H5	C 0.07 Si 0.35 Mn 0.95 Cr 2.20 Mo 1.0	1,0 1,2 1,4 1,6	M21	580 (T)	660 (T)	20 (T)	R.T. 100 J			
INETUB M91TG-B9 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E90C-B9 AWS A 5.28M/ASME SFA 5.28M: E62C-B9 AWS A 5.36: E90T15-M21PZ-B91 EN ISO 17634-B: T69T15-0M12-9C1MV	C 0.10 Si 0.25 Mn 0.90 Cr 9.7 Mo 1.0 V 0.20 N 0.05 Nb 0.04	1,0 1,2 1,4 1,6	M21	580 (T)	730 (T)	18 (T)				
INETUB M91TG NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E90C-G AWS A 5.28M/ASME SFA 5.28M: E62C-G AWS A 5.36: E90T15-M21A6-G EN ISO 18276-A: T 55 5 Z M M21 2 H5	C 0.06 Si 0.60 Mn 1.70 Ni 0.55 Mo 0.40	1,0 1,2 1,4 1,6	M21	640	710	21	-40°C 90 J -50°C 50 J			
INETUB M111TG-K3 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E110C-K3 AWS A 5.28M/ASME SFA 5.28M: E76C-K3 AWS A 5.36: E110T15-M21A6-K3 EN ISO 18276-A: T 69 4 2NiMo M M21	C 0.06 Si 0.50 Mn 1.20 Ni 2.00 Mo 0.50	1,0 1,2 1,4 1,6	M21	720	820	26	-20°C 80 J -40°C 70 J -50°C 60 J			
INETUB M121TG-K4 NON RAMATO / COPPER FREE	AWS A 5.28/ASME SFA 5.28: E120C-K4 AWS A 5.28M/ASME SFA 5.28M: E83C-K4 AWS A 5.36: E120T15-M21A6-K4 EN ISO 18276-A: T 69 5 Mn2NiCrMo M M21	C 0.06 Si 0.50 Mn 1.60 Ni 2.00 Cr 0.40 Mo 0.40	1,0 1,2 1,4 1,6	M21	770	860	17	-20°C 80 J -40°C 70 J -50°C 60 J			

FILO ANIMATO / FLUX CORED WIRES

FILO ANIMATO BASICO
BASIC FLUX CORED WIRE



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETUB B71T5 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-5M -J AWS A 5.20M/ASME SFA 5.280: E491T5-5M-J AWS A 5.36: E71T5-M21A4-CS1 EN ISO 17632-A: T 46 4 B M21 2 H5	C 0.05 Si 0.05 Mn 1.20	1,0 1,2 1,4 1,6	M21	510	580	26	-20°C 120 J -30°C 95 J -40°C 80 J		ABS LRS RINA DNV TÜV DB	
INETUB B81T5-A1 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E71T5-A1M AWS A 5.29M/ASME SFA 5.29M: E491T5-A1M AWS A 5.36: E71T5-M21A2-A1 EN ISO 17634-A: T Mo B M21 H5	C 0.08 Si 0.20 Mn 1.00 Mo 0.50	1,0 1,2 1,4 1,6	M21	520	620	26	-20°C 140 J -40°C 95 J			
INETUB B81T5-Ni1 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T5-Ni1M AWS A 5.29M/ASME SFA 5.29M: E551T5-Ni1M AWS A 5.36: E81T5-M21P4-Ni1 EN ISO 17632-A: T 46 4 1Ni B M21 2 H5	C 0.06 Si 0.30 Mn 1.20 Ni 1.0	1,0 1,2 1,4 1,6	M21	520 (T)	620 (T)	26 (T)	-20°C 140 J (T) -40°C 95 J (T) -50°C 70 J (T)			
INETUB B81T5-Ni2 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T5-Ni2M AWS A 5.29M/ASME SFA 5.29M: E551T5-Ni2M AWS A 5.36: E81T5-M21P6-Ni2 EN ISO 17632-A: T 46 6 2Ni B M21 2 H5	C 0.06 Si 0.35 Mn 0.80 Ni 2.20	1,0 1,2 1,4 1,6	M21	500 (T)	580 (T)	24 (T)	-20°C 155 J (T) -40°C 110 J (T) -60°C 80 J (T)			
INETUB B81T5-B2 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E81T5-B2M AWS A 5.29M/ASME SFA 5.29M: E551T5-B2M AWS A 5.36: E81T5-M21PY-B2 EN ISO 17634-A: T CrMo1 B M21 2 H5	C 0.06 Si 0.40 Mn 1.10 Cr 1.25 Mo 0.45	1,0 1,2 1,4 1,6	M21	570 (T)	685 (T)	20 (T)	R.T. 120 J (T)			
INETUB B91T5-B3 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E91T5-B3M AWS A 5.29M/ASME SFA 5.29M: E621T5-B3M AWS A 5.36: E91T5-M21PY-B3 EN ISO 17634-A: T CrMo2 B M21 2 H5	C 0.07 Si 0.35 Mn 1.00 Cr 2.20 Mo 1.00	1,0 1,2 1,4 1,6	M21	660 (T)	740 (T)	20 (T)	R.T. 140 J (T)			
INETUB B121T5-K4 NON RAMATO / COPPER FREE	AWS A 5.29/ASME SFA 5.29: E121T5-K4M AWS A 5.29M/ASME SFA 5.29M: E831T5-K4M AWS A 5.36: E121T5-M21A6-K4 EN ISO 18276-A: T 69 5 Mn2NiCrMo M M21	C 0.07 Si 0.50 Mn 1.40 Ni 2.00 Mo 0.40 Cr 0.55	1,0 1,2 1,4 1,6	M21	720	820	26	-20°C 90 J -40°C 65 J -60°C 45 J			

FILO ANIMATO CON POLVERE DI FERRO DA RICARICA
METAL CORED WIRE FOR HARD FACING APPLICATIO



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETUB MHF 450 NON RAMATO / COPPER FREE	EN 14700: T Fe2	C 0.30	1,0	M21					HB 450		
		Si 0.40	1,2								
		Mn 1.20	1,6								
		Cr 2.80									
		Mo 0.60									
INETUB MHF 600 NON RAMATO / COPPER FREE	EN 14700: T Fe8	C 0.45	1,0	M21					HRc 56		
		Si 0.60	1,2								
		Mn 1.20	1,6								
		Cr 4.50									
		Mo 0.80									

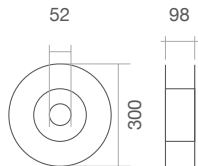
FILO ANIMATO / FLUX CORED WIRES

FILO ANIMATO AUTOPROTETTO SENZA GAS
SELF-SHIELDED CORED WIRE



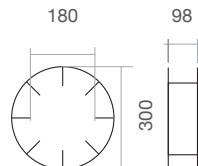
PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INETUB S71T11 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-11 AWS A 5.20/ASME SFA 5.20: E491T-11 AWS A 5.36: E71T11-AZ-CS3 EN ISO 17632-A: T 42 Z W NO 1 H15	C 0.15 Si 0.30 Mn 1.00 Al 0.80	0,8 0,9 1,0 1,2 1,6		430	520	23				
INETUB S71TGS NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-GS AWS A 5.20/ASME SFA 5.20: E491T-GS AWS A 5.36: E71TGS-GS EN ISO 17632-A: T 42 Z W NO 1 H15	C 0.17 Si 0.38 Mn 0.90 Al 1.40	0,8 0,9 1,0 1,2 1,6		430	520	22				CE
INETUB BA71T11 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-11 AWS A 5.20/ASME SFA 5.20: E491T-11 AWS A 5.36: E71T11-AZ-CS3 EN ISO 17632-A: T 42 Z W NO 1 H15	C 0.18 Si 0.25 Mn 1.00 Al 0.80	0,8 0,9 1,0 1,2 1,6		430	520	23				
INETUB BA71TGS NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-GS AWS A 5.20/ASME SFA 5.20: E491T-GS AWS A 5.36: E71TGS-GS EN ISO 17632-A: T 42 Z W NO 1 H15	C 0.18 Si 0.42 Mn 1.10 Al 0.90	0,8 0,9 1,0 1,2 1,6		470	570	24				
INETUB ZN NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-G AWS A 5.20/ASME SFA 5.20: E491T-G AWS A 5.36: E71TG- M21AZ-G EN ISO 17632-A: T 42 Z Z M21 1 H10		0,8 0,9 1,0 1,2 1,6		430	520	22				
INETUB S70T4 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E70T-4 AWS A 5.20/ASME SFA 5.20: E490T-4	C 0.15 Si 0.40 Mn 0.80 Al 1.00	1,2 1,6 2,0 2,4		440	540	24				
INETUB S71T8 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-8 AWS A 5.20/ASME SFA 5.20: E491T-8	C 0.15 Si 0.40 Mn 1.20 Al 0.80	1,2 1,6 2,0 2,4		470	540	24	-20°C 70 J -30°C 40 J			
INETUB S71T14 NON RAMATO / COPPER FREE	AWS A 5.20/ASME SFA 5.20: E71T-14 AWS A 5.20/ASME SFA 5.20: E491T-14 AWS A5.36: E71T14S-GS	C 0.16 Si 0.30 Mn 0.70 Al 1.30	0,8 0,9 1,0 1,2 1,6		440	530	24				

FILO ANIMATO / FLUX CORED WIRES



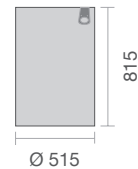
D 300/15
Plastica / Plastic

Peso netto / Net weight 15 Kg



K 300
Ferro / Steel

Peso netto / Net weight 15 Kg



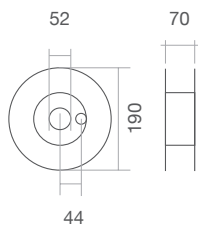
**FUSTI - P.O.P
DRUMS**

Peso netto / Net weight 200 Kg



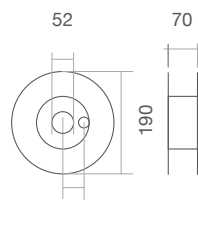
PALLET

BOBINA SPOOL	NUMERO BOBINE NUMBER OF SPOOLS	DIMENSIONE PALETTA PALLET SIZE
15 Kg	72	80 x 120 x 95 H
5 Kg	200	80 x 120 x 92 H



D 100 ART 615
Plastica / Plastic

Peso netto / Net weight 0,90 - 0,70 - 0,45 Kg



D 200
Plastica / Plastic

Peso netto / Net weight 5 Kg



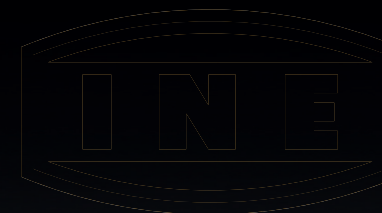
**4 FUSTI / DRUMS
250 KG**

105 x 105 x 91 H



**2 FUSTI / DRUMS
350 KG**

80 x 120 x 92 H



ELETTRODI WELDING ELECTRODES



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ELETTRODI RUTILICI E BASICI
RUTILE AND BASIC ELECTRODES

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ELETTRODI BASICI PER ACCIAI RESISTENTI AL CALORE
LOW-HYDROGENA ELECTRODES FOR HEAT-RESISTANT STEEL

66

ELETTRODI BASICI PER ACCIAI AD ALTA RESISTENZA
LOW-HYDROGEN ELECTRODES FOR HIGH-TENSILE STEEL

66

ELETTRODI BASICI PER ACCIAI RESISTENTI ALLE BASSE TEMPERATURE
LOW-HYDROGEN ELECTRODES FOR COLD-RESISTANT STEEL

68

ELETTRODI PER GHISA
ELECTRODES FOR WELDING CAST IRON

68

ELETTRODI PER ALLUMINIO
ELECTRODES FOR ALUMINIUM

70

ELETTRODI PER LA SALDATURA E LA RIPARAZIONE DEGLI ACCIAI INOX
ELECTRODES FOR WELDING AND REPAIRING STAINLESS STEEL

70

ELETTRODI PER RIPOSTI DURI
ELECTRODES FOR HARDFACING

ELETTRODI RUTILICI E BASICI
RUTILE AND BASIC ELECTRODES



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS	
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)			
INE SUPER	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 RC 1 1	C 0.06 Si 0.40 Mn 0.50	2.0 x 300 2.0 x 350 2.5 x 350 3.2 x 350 4.0 x 350		440	540	24	0°C 50 J			DB TÜV	CE
INE 45	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 R 1 2	C 0.06 Si 0.40 Mn 0.50	1.6 x 300 2.0 x 300 2.5 x 300 3.2 x 450 4.0 x 450 5.0 x 450		440	540	24	0°C 50 J			DB TÜV	CE
INE 40	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 RC 1 1	C 0.06 Si 0.40 Mn 0.60	2.0 x 300 2.5 x 350 3.2 x 350 4.0 x 350		440	520	24	0°C 50 J				
INE 44	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 RC 1 1	C 0.06 Si 0.40 Mn 0.50	1.6 x 300 2.0 x 300 2.5 x 350 3.2 x 350 4.0 x 350		440	540	24	0°C 50 J				
INE 46	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 RC 1 1	C 0.06 Si 0.40 Mn 0.50	2.0 x 300 2.5 x 350 3.2 x 350 4.0 x 350		440	540	24	0°C 50 J			TÜV	CE
INE 47	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 RR 1 2	C 0.06 Si 0.40 Mn 0.50	2.0 x 300 2.5 x 300 3.2 x 450 4.0 x 450 5.0 x 450		440	540	24	0°C 50 J			DB TÜV	CE
INE 48 A	AWS A 5.1/ASME SFA 5.1: E6013 AWS A 5.1M/ASME SFA 5.1M: E4313 EN ISO 2560-A: E 42 0 R 1 2	C 0.06 Si 0.40 Mn 0.50	2.0 x 300 2.5 x 300 3.2 x 450		440	540	24	0°C 50 J			DB TÜV	CE
INE VERTICAL	AWS A 5.1/ASME SFA 5.1: E6012 AWS A 5.1M/ASME SFA 5.1M: E4312 EN ISO 2560-A: E 42 0 RC 1 1	C 0.06 Si 0.35 Mn 0.70	2.0 x 300 2.5 x 350 3.2 x 350 4.0 x 350		460	530	24				TÜV	CE
INE AR 150	AWS A 5.1/ASME SFA 5.1: E7024 AWS A 5.1M/ASME SFA 5.1M: E4924 EN ISO 2560-A: E 42 0 RR 5 4	C 0.07 Si 0.40 Mn 0.80	3.2 x 450 4.0 x 450 5.0 x 450		460	550	24	0°C 60 J				
INE AR 180	AWS A 5.1/ASME SFA 5.1: E7024 AWS A 5.1M/ASME SFA 5.1M: E4924 EN ISO 2560-A: E 42 0 RR 7 4	C 0.07 Si 0.40 Mn 0.80	3.2 x 450 4.0 x 450 5.0 x 450		460	550	24	0°C 60 J -20°C 35J				
INE 51 N	AWS A 5.1/ASME SFA 5.1: E7014 AWS A 5.1M/ASME SFA 5.1M: E4914 EN ISO 2560-A: E 42 2 RR 1 2	C 0.06 Si 0.40 Mn 0.60	2.5 x 300 3.2 x 450 4.0 x 450 5.0 x 450		470	560	24	-20°C 50 J				

ELETTRODI / WELDING ELECTRODES

Elettrodi Rutilici e Basici
Rutile and Basic Electrodes



PRODOTTO PRODUCT	NORME NORMS	ANALISI CHIMICA TIPICA TYPICAL CHEMICAL ANALYSIS	Ø (mm)	GAS	CARATTERISTICHE MECCANICHE TIPICHE MECHANICAL CHARACTERISTICS PROPERTIES (T = dopo trattamento termico / after PWHT)					POSIZIONI DI SALDATURA WELDING POSITIONS	APPROVAZIONI APPROVALS
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRC,HB)		
INE 50 B	AWS A 5.1/ASME SFA 5.1: E7018 AWS A 5.1M/ASME SFA 5.1M: E4918 EN ISO 2560-A: E 42 4 B 4 2 H5	C 0.05 Si 0.40 Mn 1.30	2.0 x 300		470	540	26	-30°C 80 J		RINA ABS LRS GL	
			-40°C 50 J								
INE 55 B	AWS A 5.1/ASME SFA 5.1: E7018-1 AWS A 5.1M/ASME SFA 5.1M: E4918-1 EN ISO 2560-A: E 42 4 B 4 2 H5	C 0.05 Si 0.40 Mn 1.40	2.0 x 300		470	560	26	-40°C 70 J		ABS LRS RINA DNV TÜV DB	
			-45°C 60 J								
INE RB 86	AWS A 5.1/ASME SFA 5.1: E7016 AWS A 5.1M/ASME SFA 5.1M: E4916 EN ISO 2560-A: E 38 2 B	C 0.07 Si 0.50 Mn 1.20	2.5 x 350		470	540	26	-20°C 70 J			
			-30°C 50 J								
INE 180 B	AWS A 5.1/ASME SFA 5.1: E7028 AWS A 5.1/ASME SFA 5.1: E4928 EN ISO 2560-A: E 42 3 B 8 2 H10	C 0.05 Si 0.40 Mn 1.00	3.2 x 450		460	550	28	-20°C 80 J			

Elettrodi / Welding electrodes

Elettrodi basici per acciai resistenti al calore
LOW-HYDROGEN ELECTRODES FOR HEAT-RESISTANT STEEL



Prodotto Product	Norme Norms	Analisi chimica tipica Typical chemical analysis	Ø (mm)	Gas	Caratteristiche meccaniche tipiche Mechanical characteristics properties (T = dopo trattamento termico / after PWHT)					Posizioni di saldatura Welding positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INE A1	AWS A 5.5/ASME SFA 5.5: E7018-A1 AWS A 5.5M/ASME SFA 5.5M: E4918-A1 EN ISO 2560-A: E 46 2 Mo B 4 2 EN ISO 3580-A: E Mo B 4 2 H5	C 0.04 Si 0.40 Mn 0.70 Mo 0.50	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		480	570	26	-20°C 80 J			
INE B2	AWS A 5.5/ASME SFA 5.5: E8018-B2 AWS A 5.5M/ASME SFA 5.5M: E5518-B2 EN ISO 3580-A: E CrMo1 B 4 2 H5	C 0.07 Si 0.40 Mn 0.70 Cr 1.30 Mo 0.50	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		520 (T)	630 (T)	24 (T)	R.T. 100 J (T)			
INE B2 L	AWS A 5.5/ASME SFA 5.5: E7018-B2L AWS A 5.5M/ASME SFA 5.5M: E4918-B2L EN ISO 3580-A: E CrMo1L	C 0.03 Si 0.40 Mn 0.70 Cr 1.30 Mo 0.50	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		480 (T)	550 (T)	25 (T)	R.T. 150 J (T)			
INE B3	AWS A 5.5/ASME SFA 5.5: E9018-B3 AWS A 5.5M/ASME SFA 5.5M: E6218-B3 EN ISO 3580-A: E CrMo2 B 4 2 H5	C 0.07 Si 0.40 Mn 0.70 Cr 2.30 Mo 1.00	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		580 (T)	660 (T)	22 (T)	R.T. 120 J (T)			
INE B3 L	AWS A 5.5/ASME SFA 5.5: E8018-B3L AWS A 5.5M/ASME SFA 5.5M: E5518-B3L EN ISO 3580-A: E CrMo2L	C 0.03 Si 0.40 Mn 0.70 Cr 2.30 Mo 1.00	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		520 (T)	600 (T)	23 (T)	R.T. 160 J (T)			
INE B6	AWS A 5.5/ASME SFA 5.5: E8016-B6 AWS A 5.5M/ASME SFA 5.5M: E5516-B6 EN ISO 3580-A: E CrMo5 B 2 2 H5	C 0.07 Si 0.40 Mn 0.70 Cr 4.50 Mo 0.50	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		580 (T)	680 (T)	22 (T)	R.T. 70 J (T)			
INE B8	AWS A 5.5/ASME SFA 5.5: E8016-B8 AWS A 5.5M/ASME SFA 5.5M: E5516-B8 EN ISO 3580-A: E CrMo9	C 0.07 Si 0.30 Mn 0.70 Cr 9.00 Mo 1.00	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		480 (T)	600 (T)	20 (T)	R.T. 55 J (T)			
INE B9	AWS A 5.5/ASME SFA 5.5: E9015-B91 AWS A 5.5M/ASME SFA 5.5M: E6215-B91 EN ISO 3580-A: E CrMo91	C 0.08 Si 0.20 Cr 9.00 Mo 0.95 V 0.20 N 0.05 Nb 0.05	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		620 (T)	680 (T)	20 (T)	R.T. 70 J (T)			
INE B9	AWS A 5.5/ASME SFA 5.5: E9016-B91 AWS A 5.5M/ASME SFA 5.5M: E6216-B91 EN ISO 3580-A: E CrMo91	C 0.08 Si 0.20 Cr 9.00 Mo 0.95 V 0.20 N 0.05 Nb 0.05	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		620 (T)	680 (T)	20 (T)	R.T. 70 J (T)			

Elettrodi / Welding electrodes

Elettrodi Basici per Acciai ad Alta Resistenza
Low-Hydrogen Electrodes for High-Tensile Steel



Prodotto Product	Norme Norms	Analisi Chimica Tipica Typical Chemical Analysis	Ø (mm)	Gas	Caratteristiche Meccaniche Tipiche Mechanical Characteristics Properties (T = dopo trattamento termico / after PWHT)					Posizioni di Saldatura Welding Positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INE 57 B	AWS A 5.5/ASME SFA 5.5: E8018-G AWS A 5.5M/ASME SFA 5.5M: E5518-G EN ISO 2560-A: E 50 4 Z B 4 2	C 0.05 Si 0.40 Mn 1.50	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		540	600	24	-30°C 60 J			
INE 80 B	AWS A 5.5/ASME SFA 5.5: E10018M AWS A 5.5M/ASME SFA 5.5M: E6918M EN ISO 18275-A: E 62 4 1,5NiMo B 4 2 H5	C 0.05 Si 0.40 Mn 1.30 Cr 0.30 Ni 1.50 Mo 0.40	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		660	750	22	-50°C 50 J			
INE 57 B CNC	AWS A 5.5/ASME SFA 5.5: E8018-W2 AWS A 5.5M/ASME SFA 5.5M: E5518-W2 EN ISO 2560-A: E 50 4 Z B 4 2	C 0.06 Si 0.40 Mn 0.70 Cr 0.50 Ni 0.60 Cu 0.50	2.5 x 300 2.5 x 350 3.2 x 350 3.2 x 450 4.0 x 350 4.0 x 450 5.0 x 450		530	600	24	-40°C 50 J			

Elettrodi Basici per Acciai Resistenti alle Basse Temperature
Low-Hydrogen Electrodes for Cold-Resistant Steel

Prodotto Product	Norme Norms	Analisi Chimica Tipica Typical Chemical Analysis	Ø (mm)	Gas	Caratteristiche Meccaniche Tipiche Mechanical Characteristics Properties (T = dopo trattamento termico / after PWHT)					Posizioni di Saldatura Welding Positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INE C3	AWS A 5.5/ASME SFA 5.5: E8018-C3 AWS A 5.5M/ASME SFA 5.5M: E5518-C3 EN ISO 2560-A: E 46 4 1Ni B 4 2	C 0.05 Si 0.40 Mn 1.00 Ni 0.90	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		480	570	26	-40°C 85 J -50°C 50 J			
INE C1	AWS A 5.5/ASME SFA 5.5: E8018-C1 AWS A 5.5M/ASME SFA 5.5M: E5518-C1 EN ISO 2560-A: E 50 6 2Ni B 4 2	C 0.05 Si 0.40 Mn 1.00 Ni 2.20	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		540 (T)	650 (T)	24	-60°C 50 J			
INE C2	AWS A 5.5/ASME SFA 5.5: E8018-C2 AWS A 5.5M/ASME SFA 5.5M: E5518-C2 EN ISO 2560-A: E 46 6 3Ni B 4 2	C 0.05 Si 0.30 Mn 1.00 Ni 3.40	2.5 x 350 3.2 x 350 4.0 x 350 5.0 x 450		480 (T)	620 (T)	24 (T)	-60°C 90 J (T) -100°C 50 J (T)			

Elettrodi per Ghisa
Electrodes for Welding Cast Iron



Prodotto Product	Norme Norms	Analisi Chimica Tipica Typical Chemical Analysis	Ø (mm)	Gas	Caratteristiche Meccaniche Tipiche Mechanical Characteristics Properties (T = dopo trattamento termico / after PWHT)					Posizioni di Saldatura Welding Positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INE MONEL	(AWS A 5.15/ASME SFA 5.15: ENiCu-B)	C 0.50 Si 0.50 Mn 1.40 Cu 30.00 Ni 65.00 Fe 4.00	2.5 x 300 3.2 x 350								
INE NICHEL	AWS A 5.15/ASME SFA 5.15: ENi-CI	C 0.50 Si 0.50 Mn 0.70 Cu 0.60 Ni 96.00 Fe 2.00	2.5 x 350 3.2 x 350								
INE Ni-Fe	AWS A 5.15/ASME SFA 5.15: ENiFe-CI	C 1.10 Si 1.00 Mn 1.00 Cu 2.00 Ni 50.00 Fe Bal.	2.5 x 300 3.2 x 350 4.0 x 350								
INE GHISA	EN ISO 1071: E C Fe-1	C 0.50 Mn 0.80 Si 0.20 Fe Bal.	2.5 x 300								

Elettrodi per Alluminio
Electrodes for Aluminium

Prodotto Product	Norme Norms	Analisi Chimica Tipica Typical Chemical Analysis	Ø (mm)	Gas	Caratteristiche Meccaniche Tipiche Mechanical Characteristics Properties (T = dopo trattamento termico / after PWHT)					Posizioni di Saldatura Welding Positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INE Al5%Si	AWS A 5.3/ASME SFA 5.3: E4043 AWS A 5.3M/ASME SFA 5.3M: E4043	Mn 0.04 Si 5.00 Mg 0.04 Zn 0.08 Fe 0.30 Cu 0.05 Al Rem.	2.5 x 350 3.2 x 350								

Elettrodi per la saldatura e la riparazione degli acciai inox
Electrodes for welding and repairing stainless steel



Prodotto Product	Norme Norms	Analisi chimica tipica Typical chemical analysis	Ø (mm)	Gas	Caratteristiche meccaniche tipiche Mechanical characteristics properties (T = dopo trattamento termico / after PWHT)					Posizioni di saldatura Welding positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INOX 308 RLC	AWS A 5.4/ASME SFA 5.4: E308L-17 AWS A 5.4M/ASME SFA 5.4M: E308L-17 EN ISO 3581-A: E 19 9 L R	C 0.03 Mn 0.70 Si 0.70 Cr 19.00 Ni 10.00	2.0 x 300 2.5 x 300 3.2 x 350 4.0 x 350		350	520	35				
INOX 309 RLC	AWS A 5.4/ASME SFA 5.4: E309L-16 AWS A 5.4M/ASME SFA 5.4M: E309L-16 EN ISO 3581-A: E 23 12 L R	C 0.03 Mn 1.20 Si 0.80 Cr 24.00 Ni 13.00	2.0 x 300 2.5 x 300 3.2 x 350 4.0 x 350		400	520	32				
INOX 316 RLC	AWS A 5.4/ASME SFA 5.4: E316L-17 AWS A 5.4M/ASME SFA 5.4M: E316L-17 EN ISO 3581-A: E 19 12 3 L R	C 0.03 Mn 1.00 Si 0.70 Cr 18.00 Ni 12.00 Mo 2.70	2.0 x 300 2.5 x 300 3.2 x 350 4.0 x 350		440	580	30				
INOX 312 R	(AWS A 5.4/ASME SFA 5.4: E312-16) (AWS A 5.4M/ASME SFA 5.4M: E312-16) EN ISO 3581-A: E 29 9 R	C 0.10 Mn 1.20 Si 0.80 Cr 30.00 Ni 10.00	2.0 x 300 2.5 x 300 3.2 x 350 4.0 x 350		610	760	23	R.T. 35 J			
INOX 310 R	AWS A 5.4/ASME SFA 5.4: E310-16 AWS A 5.4M/ASME SFA 5.4M: E310-16 EN ISO 3581-A: E 25 20 R	C 0.10 Mn 1.80 Si 0.60 Cr 27.00 Ni 21.00	2.0 x 300 2.5 x 300 3.2 x 350 4.0 x 350		450	580	30	R.T. 60 J			
INOX 307	AWS A 5.4/ASME SFA 5.4: E307-16 AWS A 5.4M/ASME SFA 5.4M: E307-16 EN ISO 3581-A: E 18 9 Mn Mo R	C 0.10 Mn 3.80 Si 0.80 Cr 20.00 Ni 10.00 Mo 0.60	2.0 x 300 2.5 x 300 3.2 x 350 4.0 x 350		450	620	35				

Elettrodi per riporti duri
Electrodes for hardfacing

Prodotto Product	Norme Norms	Analisi chimica tipica Typical chemical analysis	Ø (mm)	Gas	Caratteristiche meccaniche tipiche Mechanical characteristics properties (T = dopo trattamento termico / after PWHT)					Posizioni di saldatura Welding positions	Approvazioni Approvals
					Rs (MPa)	Rm (MPa)	A5d(%)	Kv (J)	Durezza (HRc,HB)		
INE RD 600	EN 14700: E Fe4	C 0.40 Mn 1.90 Cr 2.80	2.5 x 300 3.2 x 350 3.2 x 450 4.0 x 450 5.0 x 450						HRc 56		



PRODOTTO PRODUCT	ø (mm)	LUNGHEZZA (mm) LENGTH (mm)	PEZZI PER KG (~) PIECES PER KG (~)	DIMENSIONE ASTUCCIO PACKET DIMENSION	PESO NETTO ASTUCCIO PACKET WEIGHT	PEZZI PER ASTUCCIO PIECES PER PACKET	DIMENSIONE CARTONE CARTON DIMENSION	ASTUCCI PER CARTONE PACKETS PER CARTON	DIMENSIONI PALETTA PALLET DIMENSION	CARTONI PER PALETTA CARTONS PER PALLET
INE SUPER	2	300	90	66X78	5 Kg	~ 360	215x88x330	3	93X75	72
INE SUPER	2	350	75	66X78	5 Kg	~ 375	215x88x380	3	93X75	72
INE SUPER	2,5	350	54	66X78	5 Kg	~ 270	215x88x380	3	93X75	72
INE SUPER	3,2	350	35	66X78	5 Kg	~ 175	215x88x380	3	93X75	72
INE SUPER	4	350	23	66X78	5 Kg	~ 115	215x88x380	3	93X75	72
INE SUPER	1,6	300	140	66X40	2,5 Kg	~ 350	215x88x330	6	93X75	72
INE SUPER	2	300	90	66X40	2,5 Kg	~ 225	215x88x330	6	93X75	72
INE SUPER	2	350	75	66X40	2,5 Kg	~ 188	215x88x380	6	93X75	72
INE SUPER	2,5	350	54	66X40	2,5 Kg	~ 135	215x88x380	6	93X75	72
INE SUPER	3,2	350	35	66X40	2,5 Kg	~ 88	215x88x380	6	93X75	72
INE SUPER	4	350	23	66X40	2,5 Kg	~ 58	215x88x380	6	93X75	72
INE VERTICAL	2	300	94	66X78	5 Kg	~ 375	215x88x330	3	93X75	72
INE VERTICAL	2,5	350	54	66X78	5 Kg	~ 270	215x88x380	3	93X75	72
INE VERTICAL	3,2	350	30	66X78	5 Kg	~ 150	215x88x380	3	93X75	72
INE VERTICAL	4	350	22	66X78	5 Kg	~ 110	215x88x380	3	93X75	72
INE 46 (blu/blue)	2	300	90	66X78	5 Kg	~ 360	215x88x330	3	93X75	72
INE 46 (blu/blue)	2,5	350	54	66X78	5 Kg	~ 270	215x88x380	3	93X75	72
INE 46 (blu/blue)	3,2	350	35	66X78	5 Kg	~ 175	215x88x380	3	93X75	72
INE 46 (blu/blue)	4	350	23	66X78	5 Kg	~ 115	215x88x380	3	93X75	72
INE 46 (blu/blue)	2	300	90	66X40	2 Kg	~ 180	215x88x330	6	93X75	72
INE 46 (blu/blue)	2,5	350	54	66X40	2,5 Kg	~ 135	215x88x380	6	93X75	72
INE 46 (blu/blue)	3,2	350	35	66X40	2,5 Kg	~ 88	215x88x380	6	93X75	72
INE 46 (blu/blue)	4	350	23	66X40	2,5 Kg	~ 58	215x88x380	6	93X75	72
INE 40 (rosso/red)	2	300	90	66X78	5 Kg	~ 360	215x88x330	3	93X75	72
INE 40 (rosso/red)	2,5	350	54	66X78	5 Kg	~ 270	215x88x380	3	93X75	72
INE 40 (rosso/red)	3,2	350	35	66X78	5 Kg	~ 175	215x88x380	3	93X75	72
INE 40 (rosso/red)	4	350	23	66X78	5 Kg	~ 115	215x88x380	3	93X75	72
INE 40 (rosso/red)	2	300	90	66X40	2 Kg	~ 180	215x88x330	6	93X75	72
INE 40 (rosso/red)	2,5	350	54	66X40	2,5 Kg	~ 135	215x88x380	6	93X75	72
INE 40 (rosso/red)	3,2	350	35	66X40	2,5 Kg	~ 88	215x88x380	6	93X75	72
INE 40 (rosso/red)	4	350	23	66X40	2,5 Kg	~ 58	215x88x380	6	93X75	72
INE 45	1,6	300	140	66X40	2 Kg	280	215x88x330	6	93X75	72
INE 45	2	300	90	66X78	~ 3,9 Kg	350	215x88x330	3	93X75	72
INE 45	2,5	300	61	66X78	~ 3,8 Kg	230	215x88x330	3	93X75	72
INE 45	3,2	450	24	66X78	~ 6,2 Kg	150	215x88x480	3	93X75	54
INE 45	4	450	16	66X78	~ 6,2 Kg	100	215x88x480	3	93X75	54
INE 45	5	450	10	66X78	~ 6,2 Kg	60	215x88x480	3	93X75	54
INE 45	2	300	90	BLISTER		50		20	93X75	72
INE 45	2,5	300	90	BLISTER		50		20	93X75	72
INE 48 A (rosso/red)	2	300	90	66X78	~ 3,9 Kg	350	215x88x330	3	93X75	72
INE 48 A (rosso/red)	2,5	300	59	66X78	~ 3,9 Kg	230	215x88x330	3	93X75	72
INE 48 A (rosso/red)	3,2	450	24	66X78	~ 6,0 Kg	150	215x88x480	3	93X75	54
INE 47	2	300	90	66X78	~ 3,9 Kg	350	215x88x330	3	93X75	72
INE 47	2,5	300	53	66X78	~ 4,3 Kg	230	215x88x330	3	93X75	72
INE 47	3,2	450	23	66X78	~ 6,7 Kg	150	215x88x480	3	93X75	54
INE 47	4	450	16	66X78	~ 6,2 Kg	100	215x88x480	3	93X75	54
INE 47	5	450	10	66X78	~ 6,0 Kg	60	215x88x480	3	93X75	54
INE 51 N	2,5	300	53	66X78	~ 4,3 Kg	260	215x88x330	3	93X75	72
INE 51 N	3,2	450	23	66X78	~ 6,7 Kg	150	215x88x480	3	93X75	54
INE 51 N	4	450	16	66X78	~ 6,2 Kg	100	215x88x480	3	93X75	54
INE 51 N	5	450	10	66X78	~ 6,0 Kg	60	215x88x480	3	93X75	54
INE 50 B	2	300	83	66X78	~ 4,2 Kg	350	215x88x330	3	93X75	72
INE 50 B	2,5	300	50	66X78	~ 4,8 Kg	240	215x88x380	3	93X75	72
INE 50 B	2,5	350	42	66X78	5 Kg	~ 210	215x88x380	3	93X75	72
INE 50 B	3,2	350	27	66X78	5 Kg	~ 135	215x88x380	3	93X75	72
INE 50 B	3,2	450	21	66X78	~ 6,7 Kg	140	215x88x480	3	93X75	54
INE 50 B	4	350	19	66X78	5 Kg	~ 96	215x88x380	3	93X75	72
INE 50 B	4	450	15	66X78	~ 5,3 Kg	80	215x88x480	3	93X75	54
INE 50 B	5	450	10	66X78	5 Kg	~ 50	215x88x480	3	93X75	54



PRODOTTO PRODUCT	ø (mm)	LUNGHEZZA (mm) LENGTH (mm)	PEZZI PER KG (~) PIECES PER KG (~)	DIMENSIONE ASTUCCIO PACKET DIMENSION	PESO NETTO ASTUCCIO PACKET WEIGHT	PEZZI PER ASTUCCIO PIECES PER PACKET	DIMENSIONE CARTONE CARTON DIMENSION	ASTUCCI PER CARTONE PACKETS PER CARTON	DIMENSIONI PALETTA PALLET DIMENSION	CARTONI PER PALETTA CARTONS PER PALLET
INE 50 B	2	300	83	VACUUM 67x31	2 Kg	~ 166	215x88x330	6	93X75	72
INE 50 B	2,5	300	50	VACUUM 67x31	2 Kg	~ 100	215x88x380	6	93X75	72
INE 50 B	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE 50 B	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE 50 B	3,2	450	21	VACUUM 67x31	2,5 Kg	~ 53	215x88x380	6	93X75	72
INE 50 B	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE 50 B	4	450	15	VACUUM 67x31	2,5 Kg	~ 38	215x88x380	6	93X75	72
INE 50 B	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE 55 B	2	300	83	66X78	~ 4,2 Kg	350	215x88x330	3	93X75	72
INE 55 B	2,5	300	50	66X78	~ 4,8 Kg	240	215x88x380	3	93X75	72
INE 55 B	2,5	350	42	66X78	5 Kg	~ 210	215x88x380	3	93X75	72
INE 55 B	3,2	350	27	66X78	5 Kg	~ 135	215x88x380	3	93X75	72
INE 55 B	3,2	450	21	66X78	~ 6,7 Kg	140	215x88x480	3	93X75	54
INE 55 B	4	350	19	66X78	5 Kg	~ 96	215x88x380	3	93X75	72
INE 55 B	4	450	15	66X78	~ 5,3 Kg	80	215x88x480	3	93X75	54
INE 55 B	5	450	10	66X78	5 Kg	~ 50	215x88x480	3	93X75	54
INE 55 B	2	300	83	VACUUM 67x31	2 Kg	~ 166	215x88x330	6	93X75	72
INE 55 B	2,5	300	50	VACUUM 67x31	2 Kg	~ 100	215x88x380	6	93X75	72
INE 55 B	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE 55 B	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE 55 B	3,2	450	21	VACUUM 67x31	2,5 Kg	~ 53	215x88x380	6	93X75	72
INE 55 B	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE 55 B	4	450	15	VACUUM 67x31	2,5 Kg	~ 38	215x88x380	6	93X75	72
INE 55 B	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE 57 B CNC	2,5	300	50	VACUUM 67x31	2 Kg	~ 100	215x88x330	6	93X75	72
INE 57 B CNC	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE 57 B CNC	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE 57 B CNC	3,2	450	21	VACUUM 67x31	2,5 Kg	~ 53	215x88x380	6	93X75	72
INE 57 B CNC	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE 57 B CNC	4	450	15	VACUUM 67x31	2,5 Kg	~ 38	215x88x480	6	93X75	54
INE 57 B CNC	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE 57 B	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE 57 B	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x480	6	93X75	54
INE 57 B	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE 57 B	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE 80 B	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE 80 B	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x480	6	93X75	54
INE 80 B	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE 80 B	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE C 3	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE C 3	4	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE C 3	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x480	6	93X75	54
INE C 3	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE C 1	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE C 1	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE C 1	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE C 1	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE A 1	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE A 1	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE A 1	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE A 1	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE B2	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B2	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B2	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B2	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE B2 L	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B2 L	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B2 L	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B2 L	5	350	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x380	6	93X75	72



PRODOTTO PRODUCT	ø (mm)	LUNGHEZZA (mm) LENGTH (mm)	PEZZI PER KG (~) PIECES PER KG (~)	DIMENSIONE ASTUCCIO PACKET DIMENSION	PESO NETTO ASTUCCIO PACKET WEIGHT	PEZZI PER ASTUCCIO PIECES PER PACKET	DIMENSIONE CARTONE CARTON DIMENSION	ASTUCCI PER CARTONE PACKETS PER CARTON	DIMENSIONI PALETTA PALLET DIMENSION	CARTONI PER PALETTA CARTONS PER PALLET
INE B3	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B3	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B3	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B3	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE B3 L	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B3 L	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B3 L	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B3 L	5	350	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x380	6	93X75	72
INE B3 L	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B3 L	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B3 L	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B3 L	5	350	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x380	6	93X75	72
INE B6	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B6	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B6	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B6	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE B8	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B8	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B8	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B8	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE B9	2,5	350	42	VACUUM 67x31	2 Kg	~ 84	215x88x380	6	93X75	72
INE B9	3,2	350	27	VACUUM 67x31	2 Kg	~ 54	215x88x380	6	93X75	72
INE B9	4	350	19	VACUUM 67x31	2 Kg	~ 38	215x88x380	6	93X75	72
INE B9	5	450	10	VACUUM 67x31	2,5 Kg	~ 25	215x88x480	6	93X75	54
INE RB 86	2,5	350	50	VACUUM 67x31	2 Kg	95	215x88x380	6	93X75	72
INE RB 86	3,2	350	30	VACUUM 67x31	2 Kg	55	215x88x380	6	93X75	72
INE RB 86	4	350	19	VACUUM 67x31	2 Kg	35	215x88x380	6	93X75	72
INE RD 600	2,5	300	50	66X78	~ 4,8 Kg	240	215x88x380	3	93X75	72
INE RD 600	3,2	350	27	66X78	5 Kg	~ 135	215x88x380	3	93X75	72
INE RD 600	3,2	450	21	66X78	~ 6,7 Kg	140	215x88x480	3	93X75	54
INE RD 600	4	450	15	66X78	~ 5,3 Kg	80	215x88x480	3	93X75	54
INE RD 600	5	450	10	66X78	5 Kg	~ 50	215x88x480	3	93X75	54
INE AR 150	3,2	450	14,5	66X78	7 Kg	~ 100	215x88x480	3	93X75	54
INE AR 150	4	450	10	66X78	7 Kg	~ 70	215x88x480	3	93X75	54
INE AR 150	5	450	6,3	66X78	7 Kg	~ 45	215x88x480	3	93X75	54
INE AR 180	3,2	450	14,5	66X78	7 Kg	~ 100	215x88x480	3	93X75	54
INE AR 180	4	450	10	66X78	7 Kg	~ 70	215x88x480	3	93X75	54
INE AR 180	5	450	6,3	66X78	7 Kg	~ 45	215x88x480	3	93X75	54
INE 180 B	3,2	450	14,5	66X78	7 Kg	~ 100	215x88x480	3	93X75	54
INE 180 B	4	450	10	66X78	7 Kg	~ 70	215x88x480	3	93X75	54
INE 180 B	5	450	6,3	66X78	7 Kg	~ 45	215x88x480	3	93X75	54
INE NICHEL	2,5	350	47	VACUUM 67x31	2 Kg	~ 94	215x88x380	6	93X75	72
INE NICHEL	3,2	350	32	VACUUM 67x31	2 Kg	~ 64	215x88x380	6	93X75	72
INE NI-FE	2,5	300	62	VACUUM 67x31	2 Kg	~ 124	215x88x330	6	93X75	72
INE NI-FE	3,2	350	32	VACUUM 67x31	2 Kg	~ 64	215x88x380	6	93X75	72
INE NI-FE	4	350	21	VACUUM 67x31	2 Kg	~ 42	215x88x380	6	93X75	72
INE MONEL	2,5	300	55	VACUUM 67x31	2 Kg	~ 110	215x88x330	6	93X75	72
INE MONEL	3,2	350	30	VACUUM 67x31	2 Kg	~ 60	215x88x380	6	93X75	72
INE GHISA	2,5	300	74	66X78	2 Kg	370	215x88x330	3	93X75	72
INOX 308 RLC	2	300	89	TUBO/TUBE	2 Kg	230	375x85x368	4	93X75	72
INOX 308 RLC	2,5	300	55	TUBO/TUBE	2 Kg	140	375x85x368	4	93X75	72
INOX 308 RLC	3,2	350	29	TUBO/TUBE	2 Kg	75	375x85x394	4	93X75	72
INOX 308 RLC	4	350	20	TUBO/TUBE	2 Kg	50	375x85x394	4	93X75	72



PRODOTTO PRODUCT	ø (mm)	LUNGHEZZA (mm) LENGTH (mm)	PEZZI PER KG (~) PIECES PER KG (~)	DIMENSIONE ASTUCCIO PACKET DIMENSION	PESO NETTO ASTUCCIO PACKET WEIGHT	PEZZI PER ASTUCCIO PIECES PER PACKET	DIMENSIONE CARTONE CARTON DIMENSION	ASTUCCI PER CARTONE PACKETS PER CARTON	DIMENSIONI PALETTA PALLET DIMENSION	CARTONI PER PALETTA CARTONS PER PALLET
INOX 309 RLC	2	300	89	TUBO/TUBE	2,5 Kg	230	375x85x368	4	93X75	72
INOX 309 RLC	2,5	300	55	TUBO/TUBE	2,5 Kg	140	375x85x368	4	93X75	72
INOX 309 RLC	3,2	350	29	TUBO/TUBE	2,5 Kg	75	375x85x394	4	93X75	72
INOX 309 RLC	4	350	20	TUBO/TUBE	2,5 Kg	50	375x85x394	4	93X75	72
INOX 310 R	2	300	89	TUBO/TUBE	2,5 Kg	230	375x85x368	4	93X75	72
INOX 310 R	2,5	300	55	TUBO/TUBE	2,5 Kg	140	375x85x368	4	93X75	72
INOX 310 R	3,2	350	29	TUBO/TUBE	2,5 Kg	75	375x85x394	4	93X75	72
INOX 310 R	4	350	20	TUBO/TUBE	2,5 Kg	50	375x85x394	4	93X75	72
INOX 312 R	2	300	89	TUBO/TUBE	2,5 Kg	230	375x85x368	4	93X75	72
INOX 312 R	2,5	300	55	TUBO/TUBE	2,5 Kg	140	375x85x368	4	93X75	72
INOX 312 R	3,2	350	29	TUBO/TUBE	2,5 Kg	75	375x85x394	4	93X75	72
INOX 312 R	4	350	20	TUBO/TUBE	2,5 Kg	50	375x85x394	4	93X75	72
INOX 316 RLC	2	300	89	TUBO/TUBE	2,5 Kg	230	375x85x368	4	93X75	72
INOX 316 RLC	2,5	300	55	TUBO/TUBE	2,5 Kg	140	375x85x368	4	93X75	72
INOX 316 RLC	3,2	350	29	TUBO/TUBE	2,5 Kg	75	375x85x394	4	93X75	72
INOX 316 RLC	4	350	20	TUBO/TUBE	2,5 Kg	50	375x85x394	4	93X75	72
INOX 307	2	300	89	TUBO/TUBE	2,5 Kg	230	375x85x368	4	93X75	72
INOX 307	2,5	300	55	TUBO/TUBE	2,5 Kg	140	375x85x368	4	93X75	72
INOX 307	3,2	350	29	TUBO/TUBE	2,5 Kg	75	375x85x394	4	93X75	72
INOX 307	4	350	20	TUBO/TUBE	2,5 Kg	50	375x85x394	4	93X75	72
INE ALL.5% Si	2,5	350	111	TUBO/TUBE	2 Kg	222	85x375x394	4	93X75	72
INE ALL.5% Si	3,2	350	75	TUBO/TUBE	2 Kg	149	85x375x394	4	93X75	72

BLISTER

BLISTER				BOX 41,5 x 27,5 x h16,0 cm		BOX 21,5 x 9 x h48,5 cm	
Prodotto Product	ø (mm)	Lunghezza (mm) Length (mm)	Pezzi per blister Pieces per blister	Blister per carton Blister per carton	Cartoni per paletta Cartons per pallet	Blister per carton Blister per carton	Cartoni per paletta Cartons per pallet
INE SUPER	1.6	300	20	50	max 24	25	max 54
INE SUPER	2.0	350	25	50	max 24	25	max 54
INE SUPER	2.0	350	50	10	max 24	7	max 54
INE SUPER	2.5	350	14	50	max 24	25	max 54
INE SUPER	2.5	350	50	10	max 24	7	max 54
INE SUPER	2.5	350	80	10	max 24	7	max 54
INE SUPER	3.2	350	9	50	max 24	25	max 54
INE SUPER	3.2	350	55	10	max 24	7	max 54
INE SUPER	4.0	350	6	50	max 24	25	max 54
INE 45	1,6	300	20	50	max 24	25	max 54
INE 45	2,0	300	25	50	max 24	25	max 54
INE 45	2,0	300	50	10	max 24	7	max 54
INE 45	2,5	300	14	50	max 24	25	max 54
INE 45	2,5	300	50	10	max 24	7	max 54
INE 45	2,5	300	80	10	max 24	7	max 54
INE INOX 308	2.0	300	12	50	max 24	25	max 54
INE INOX 308	2.5	300	10	50	max 24	25	max 54
INE INOX 308	3.2	350	8	50	max 24	25	max 54
INE INOX 312	2.0	300	12	50	max 24	25	max 54
INE INOX 312	2.5	300	10	50	max 24	25	max 54
INE INOX 312	3.2	350	8	50	max 24	25	max 54
INE INOX 316	2.0	300	12	50	max 24	25	max 54
INE INOX 316	2.5	300	10	50	max 24	25	max 54
INE INOX 316	3.2	350	8	50	max 24	25	max 54
INE NI-FE	2.5	300	11	50	max 24	25	max 54
INE NI-FE	3.2	350	9	50	max 24	25	max 54



BLISTER



SOTTOVUOTO / VACUUM



TUBI / TUBE



ASTUCCIO 3PZ / PACKET 3PZ



ASTUCCIO 6PZ / PACKET 6PZ



PALLET

72 cartoni / cartons

75 X 93 X 90 H



INE SpA

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