TRAFILTUBI

TUBI DI ACCIAIO TRAFILATI A FREDDO

PREMIUM TECHNOLOGY

Since 1966 Trafiltubi has specialized in cold drawn tubes production
for extreme, high technology applications

Round or non-round and special shaped tubing in a wide choice
of special alloy steels or inox, for the most diverse applications:
aviation • automotive • bicycles, motorbikes, karts •
all types of high-resistance dynamic frames • industrial design •
heat exchangers, evaporators, high temperature use in general

Trafiltubi ensures top service for any kind of specific client requirements;
ad-hoc technological solutions, high quality and fast delivery even for small quantities

EVERY TUBE DRAWN IN TRAFILTUBI IS A HIGH PRECISION TECHNOLOGICAL PRODUCT

Since 1947, with the Gilco experience, and then since 1966, Trafiltubi has matured a unique capability to address and satisfy even the most demanding requirements and has been providing its clients with the ad-hoc technological components, fitting the most sophisticated applications.
We cold-draw special precision tubes from hollows, both welded and weldless, and we can boast the widest range of solutions in the world produced the same plant, in terms of materials, sizes and shapes. Our high resistance ultra-light tubes can be customized along an exclusive wealth of variations :

Materials / the widest choice of materials: our range of carbon steel, both common and alloy, covers all aeronautical and mechanical steels such as 25CrMo4, 4130, BS4 T45; and, in particular, we are undisputed specialist of 15CDV6; case-hardening, resulfurized, high-alloy steels, etc. Our range of stainless steels (both ordinary and special) includes austenitic, martensitic, ferritic, duplex and super-duplex, super alloys with Nickel and Chrome, and our exclusive patented Hinoxtube®.

Shapes / we not only draw the round-section tubes, but we can also draw any special shaped tubing: squared, hexagonal, triangular shaped tubes, or tubes with a round external diameter and a shaped inside, or vice versa. A wide variety of solutions can be selected among the many tools we have already available for fast production. But new more shapes can be produced from ad-hoc tools.

Surfaces / We provide different ways of finishing (raw or polished) as required, including polished surfaces on carbon steels.

Sizes and thicknesses / Lengths up to 16m, diameters from 4.5 to 114mm, thickness from 0.4 to 14mm. Along the same tube thicknesses can be uniform or different, according to customer needs.

Butted and tapered tubes / we can produce double or triple butted tubes (whose thickness varies along the tube itself) in order to optimise welded structures' lightness while guaranteeing total reliability and resistance to welding. Internally helixed tubes, tapered tubes, whose shape may also vary along the tube itself. We also produce finished tubes for bicycle frames.

Heat treatments / Trafiltubi experience and quality processes in setting up dedicated heat treatments so as to imprint specific mechanical and dimensional qualities, as requested, are widely acknowledged. Our two furnaces operate in a controlled atmosphere.

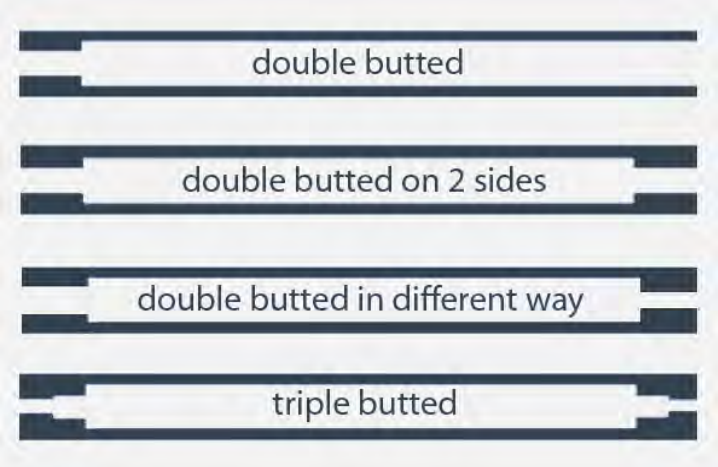
Special solutions / ultra-tight tolerances and special roughness of both internal and external surfaces, can be provided. Ready ground or otherwise worked tubes, U-shaped tubes; research and support for special parts; sampling and feasibiliy studies for technical solutions; continuous support to our clients for the development of improved/innovative solutions.

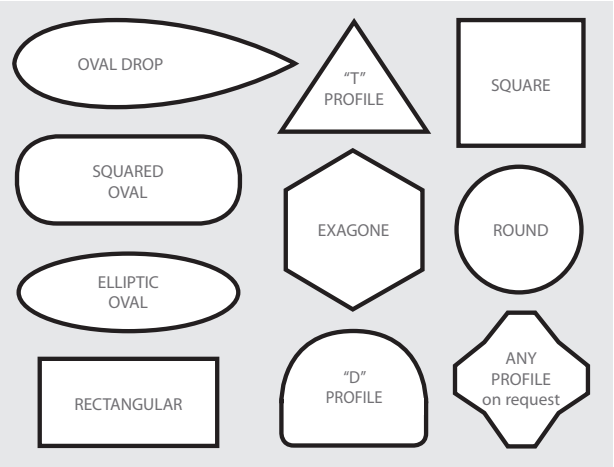
Fast deliveries and small quantities / our stock keeps 25Cr and 15CDV6 ready for delivery; we can also set up small quantity productions for ultra-fast delivery.

Lab / for every supply, our internal lab carries out all the tests and issues the testing certificate 3.1, while archiving and keeping all tested samples for at least one year, as well as one untouched sample for every production; our Lab can also provide, if required, further tests in addition to the standard ones, and 3.2 certification when needed.

Warranties and Certifications / Trafiltubi operates under the highest transparency and traceability standards. Our quality management system (since 1994 EN ISO 9002 compliant) has been certified since 1997 by DET NORSKE VERITAS. We are also PED certified and AD2000-W0 by TÜV. Furthermore, we are qualified and authorised suppliers with leading companies subject to the most uncompromising standards on component verification: energy companies (including oil and nuclear), areospace and automotive. Trafiltubi itself qualifies its suppliers through strict procedures.

TRAFILTUBI - EXAMPLES OF MECHANICAL CHARACTERISTICS OF OUR SPECIAL TUBES				
NOTE: * customised properties are defined according to *Trafiltubi internal specifications*				
15CDV6 • Special vanadium micro-alloyed steel for frames and aeronautical industry				
Heat Treatment	Rm (Mpa)	Rp0,2 (Mpa)	All (%)	Norm/Standard
NBK+S (1.7734.4)	> 700	> 550	> 12	AIR 9160C / LN9369
NBK+S (1.7734.5)	980-1180	> 790	> 10	AIR 9160C / LN9369
NBK+S (1.7734.6)	1030-1230	> 880	> 10	AIR 9160C / LN9369
Quenched and Tempered	1250-1450	> 1080	> 5	TRF-QT Int. Spec*
25CrMo4 • Special chrome micro-alloyed steel for frames and aeronautical industry				
Heat Treatment	Rm (Mpa)	Rp0,2 (Mpa)	All (%)	Norm/Standard
BK+S (+SR)	650-900	> 600	> 10	TRF Int. Spec*
GBK (+A)	500-620	> 300	> 24	TRF Int. Spec*
NBK (+N)	650-900	> 390	> 16	TRF/A Int. Spec*
NBK (+N)	580-700	> 330	> 18	TRF/B Int. Spec*
NBK (+N)	620-800	> 390	> 18	UNI6403/EN10305-1
Quenched and Tempered	1150-1350	> 1050	> 5	TRF-QT Int. Spec*
4130 • Special chrome micro-alloyed steel for frames and aeronautical industry				
Heat Treatment	Rm (Mpa)	Rp0,2 (Mpa)	All (%)	Norm/Standard
NBK (or NBK+S) / BK+S (+SR)	> 655	> 517	> 12	AMS-T-6736A
NBK	> 621	> 414	> 20	ASTM A519
BS4 T45 (+A2) • Special unalloyed steel for frames and aeronautical industry				
Heat Treatment	Rm (Mpa)	Rp0,2 (Mpa)	All (%)	Norm/Standard
BK+S (+SR)	> 710-900	> 620	>18	BS5 T100/BS6 S600
Hinoxtube® • Patented Tube made of special stainless steel**				
Heat Treatment	Rm (Mpa)	Rp0,2 (Mpa)	All (%)	Norm/Standard
GBK (+A)	1050-1200	> 720	>18	TRF Int. Spec*
note: ** *Trafiltubi exclusive, Hinoxtube® combines the best features of austenitic and martensitic stainless steels*				
42CrMo4 •Special chrome micro-alloyed steel for mechanical industry				
Heat Treatment	Rm (Mpa)	Rp0,2 (Mpa)	All (%)	Norm/Standard
BK+S (+SR)	800-1050	> 700	>10	TRF Int. Spec*
GBK (+A)	680-800	> 550	>16	TRF Int. Spec*
NBK (+N)	750-1050	> 450	>14	TRF Int. Spec*
BK (+C)	>720		> 4	EN 10305-1
BKW (+LC)	>670		> 6	EN 10305-1
Quenched and Tempered	1250-1500	> 1080	> 5	TRF-QT Int. Spec*
Heat Treatment	HB	HRB		Norm/Standard
GBK (TC/+A)	< 245	< 102		UNI6403/EN10305-1





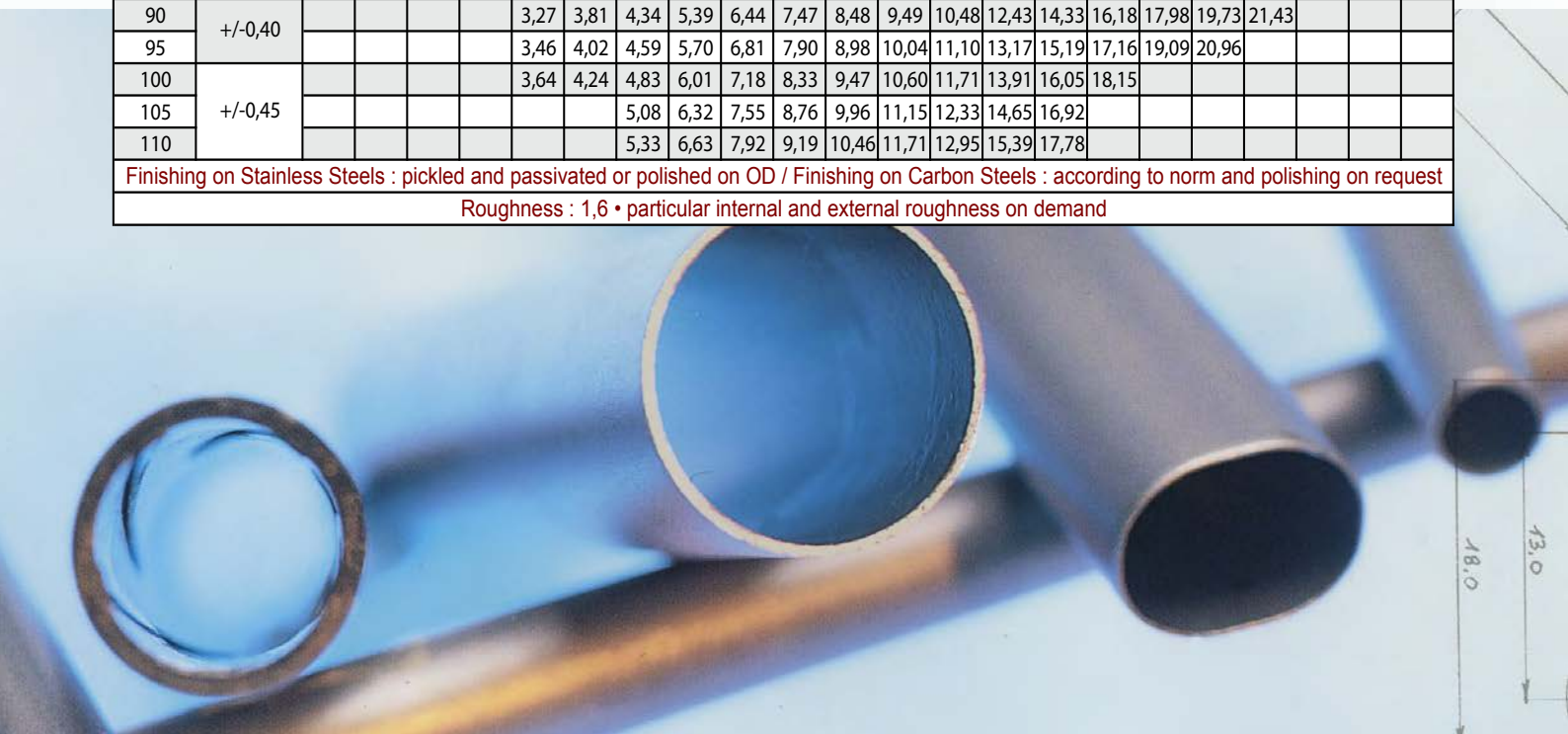
TRAFILTUBI - ROUND TUBES: STANDARD DIMENSIONS

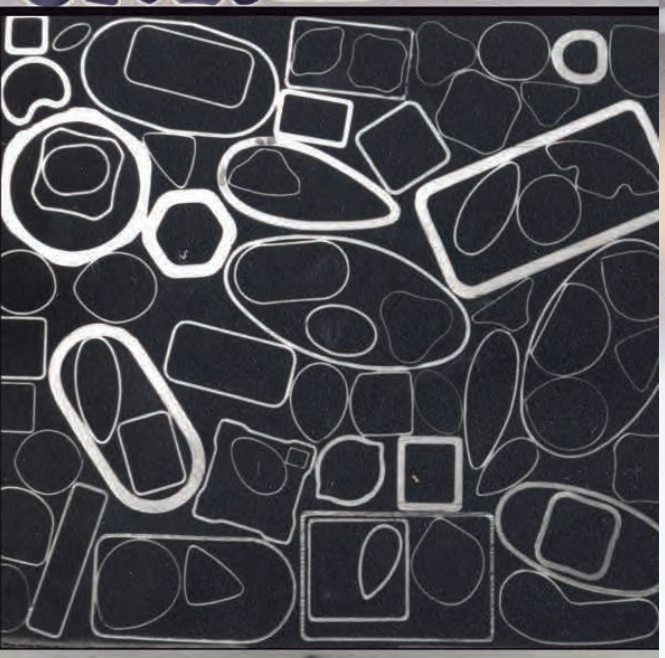
indicative table dimensions (OD / thickness) and weigths • please note : all other intermediate dimensions are available on request

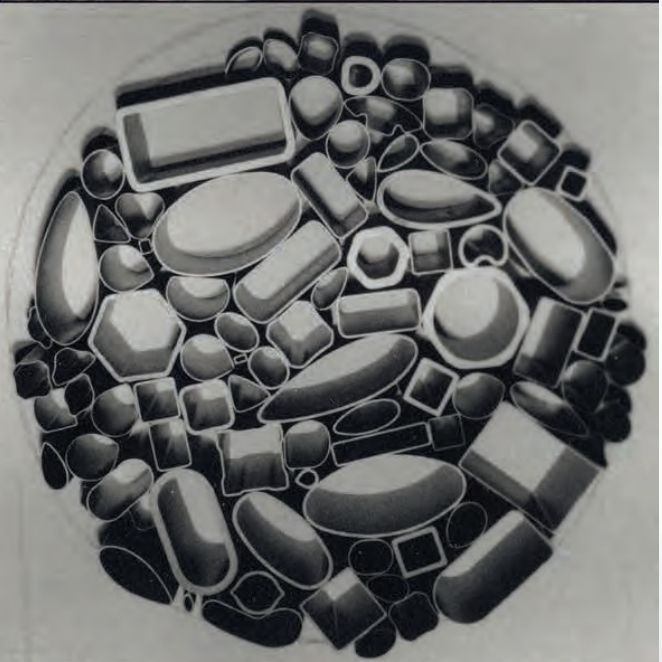
outside diam. Mm	standard tol. on OD	standard tolerance on thk (mm) +/-10% pls note: in addition to the standard tolerances we can produce also more restricted tolerances (+/-0.025 mm)																					
		0,5	0,75	1	1,25	1,5	1,75	2	2,5	3	3,5	4	4,5	5	6	7	8	9	10	11	12	13	14
		metric weight (theoretical weigth expressed in Kg / m)																					
4,5*	+/-0,10	0,043	0,060	0,074																			
5*		0,055	0,079	0,099	0,116	0,129	0,140									* OD 4,5 and 5 mm : lengths up to 6 meters							
6		0,068	0,097	0,123	0,146	0,166	0,183	0,197								Lengths up to 16 meters							
7		0,080	0,116	0,148	0,177	0,203	0,227	0,247															
8		0,092	0,134	0,173	0,208	0,240	0,270	0,296	0,339														
9		0,105	0,153	0,197	0,239	0,277	0,313	0,345	0,401														
10		0,117	0,171	0,222	0,270	0,314	0,356	0,395	0,462	0,518													
11		0,13	0,19	0,25	0,30	0,35	0,40	0,44	0,52	0,59	0,65												
12		0,14	0,21	0,27	0,33	0,39	0,44	0,49	0,59	0,67	0,73	0,79											
14		0,17	0,25	0,32	0,39	0,46	0,53	0,59	0,71	0,81	0,91	0,99	1,05	1,11									
16		0,19	0,28	0,37	0,45	0,54	0,61	0,69	0,83	0,96	1,08	1,18	1,28	1,36	1,48								
18		0,22	0,32	0,42	0,52	0,61	0,70	0,79	0,96	1,11	1,25	1,38	1,50	1,60	1,78	1,90							
20		0,24	0,36	0,47	0,58	0,68	0,79	0,89	1,08	1,26	1,42	1,58	1,72	1,85	2,07	2,24							
22		0,27	0,39	0,52	0,64	0,76	0,87	0,99	1,20	1,41	1,60	1,78	1,94	2,10	2,37	2,59							
24		0,29	0,43	0,57	0,70	0,83	0,96	1,09	1,33	1,55	1,77	1,97	2,16	2,34	2,66	2,93	3,16						
26		0,31	0,47	0,62	0,76	0,91	1,05	1,18	1,45	1,70	1,94	2,17	2,39	2,59	2,96	3,28	3,55	3,77	3,95				
28		0,34	0,50	0,67	0,82	0,98	1,13	1,28	1,57	1,85	2,11	2,37	2,61	2,84	3,26	3,63	3,95	4,22	4,44				
30		0,36	0,54	0,72	0,89	1,05	1,22	1,38	1,70	2,00	2,29	2,56	2,83	3,08	3,55	3,97	4,34	4,66	4,93	5,15			
32		0,39	0,58	0,76	0,95	1,13	1,31	1,48	1,82	2,15	2,46	2,76	3,05	3,33	3,85	4,32	4,73	5,10	5,43	5,70			
34		0,41	0,61	0,81	1,01	1,20	1,39	1,58	1,94	2,29	2,63	2,96	3,27	3,58	4,14	4,66	5,13	5,55	5,92	6,24			
35	+/-0,15	0,43	0,63	0,84	1,04	1,24	1,43	1,63	2,00	2,37	2,72	3,06	3,38	3,70	4,29	4,83	5,33	5,77	6,17	6,51			
36		0,44	0,65	0,86	1,07	1,28	1,48	1,68	2,07	2,44	2,81	3,16	3,50	3,82	4,44	5,01	5,52	5,99	6,41	6,78	7,10		
38		0,46	0,69	0,91	1,13	1,35	1,56	1,78	2,19	2,59	2,98	3,35	3,72	4,07	4,73	5,35	5,92	6,44	6,90	7,32	7,69	8,01	
40		0,49	0,73	0,96	1,19	1,42	1,65	1,87	2,31	2,74	3,15	3,55	3,94	4,32	5,03	5,70	6,31	6,88	7,40	7,87	8,29	8,66	
42		0,51	0,76	1,01	1,26	1,50	1,74	1,97	2,44	2,89	3,32	3,75	4,16	4,56	5,33	6,04	6,71	7,32	7,89	8,41	8,88	9,30	9,67
45	+/-0,20		0,82	1,09	1,35	1,61	1,87	2,12	2,62	3,11	3,58	4,04	4,49	4,93	5,77	6,56	7,30	7,99	8,63	9,22	9,77	10,26	10,70
50			0,91	1,21	1,50	1,79	2,08	2,37	2,93	3,48	4,01	4,54	5,05	5,55	6,51	7,42	8,29	9,10	9,86	10,58	11,24	11,86	12,43
55				1,33	1,66	1,98	2,30	2,61	3,24	3,85	4,44	5,03	5,60	6,17	7,25	8,29	9,27	10,21	11,10	11,94	12,72	13,46	14,15
58	+/-0,25			1,41	1,75	2,09	2,43	2,76	3,42	4,07	4,70	5,33	5,94	6,53	7,69	8,80	9,86	10,88	11,84	12,75	13,61	14,43	14,19
60				1,45	1,81	2,16	2,51	2,86	3,54	4,22	4,88	5,52	6,16	6,78	7,99	9,15	10,26	11,32	12,33	13,29	14,20	15,07	15,88
65				1,58	1,97	2,35	2,73	3,11	3,85	4,59	5,31	6,02	6,71	7,40	8,73	10,01	11,24	12,43	13,56	14,65	15,68	16,67	17,61
70	+/-0,30			1,70	2,12	2,53	2,95	3,35	4,16	4,96	5,74	6,51	7,27	8,01	9,47	10,88	12,23	13,54	14,80	16,00	17,16	18,27	19,33
75				1,82	2,27	2,72	3,16	3,60	4,47	5,33	6,17	7,00	7,82	8,63	10,21	11,74	13,22	14,65	16,03	17,36	18,64	19,88	21,06
80	+/-0,35			1,95	2,43	2,90	3,38	3,85	4,78	5,70	6,60	7,50	8,38	9,25	10,95	12,60	14,20	15,76	17,26	18,72	20,12	21,48	22,79
85						3,09	3,59	4,09	5,09	6,07	7,03	7,99	8,93	9,86	11,69	13,46	15,19	16,87	18,50	20,07	21,60		
90	+/-0,40					3,27	3,81	4,34	5,39	6,44	7,47	8,48	9,49	10,48	12,43	14,33	16,18	17,98	19,73	21,43			
95						3,46	4,02	4,59	5,70	6,81	7,90	8,98	10,04	11,10	13,17	15,19	17,16	19,09	20,96				
100	+/-0,45					3,64	4,24	4,83	6,01	7,18	8,33	9,47	10,60	11,71	13,91	16,05	18,15						
105								5,08	6,32	7,55	8,76	9,96	11,15	12,33	14,65	16,92							
110								5,33	6,63	7,92	9,19	10,46	11,71	12,95	15,39	17,78							

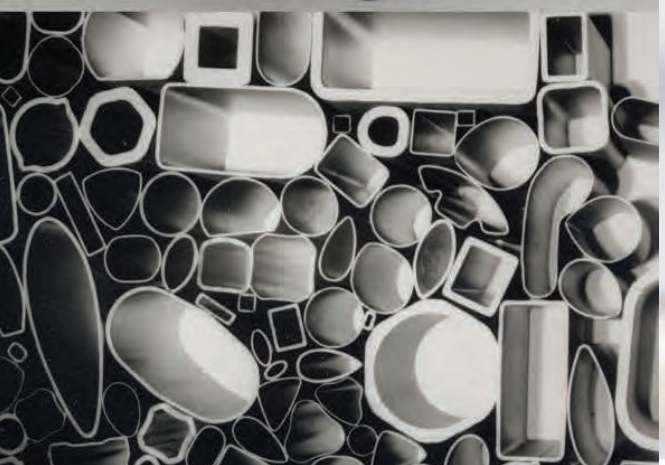
Finishing on Stainless Steels : pickled and passivated or polished on OD / Finishing on Carbon Steels : according to norm and polishing on request

Roughness : 1,6 • particular internal and external roughness on demand









TRAFILTUBI WHAREHOUSE / TUBES READY FROM STOCK

immediate delivery even on retail

25CrMo4 (NBK)		weight kg/m	15CDV6 (NBK+S)	
outside diameter	wall thickness		outside diameter	wall thickness
8	1,00	0,17	-	-
10	1,00	0,22	10	1,00
12	1,00	0,27	12	1,00
14	1,00	0,32	14	1,00
14	2,00	0,59	-	-
16	1,00	0,37	16	1,00
16	1,50	0,54	-	-
18	1,00	0,42	18	1,00
18	1,50	0,61	-	-
19	1,50	0,65	-	-
20	1,00	0,47	-	-
20	1,50	0,68	20	1,50
20	2,00	0,89	20	2,00
22	1,00	0,52	-	-
22	1,50	0,76	22	1,50
25	1,00	0,59	-	-
25	1,50	0,87	25	1,50
25	2,00	1,13	25	2,00
25	2,50	1,39	-	-
28	1,50	0,98	28	1,50
28	2,00	1,28	28	2,00
30	1,00	0,71	-	-
30	1,50	1,05	-	-
30	2,00	1,38	30	2,00
32	1,00	0,76	-	-
32	1,50	1,13	32	1,50
32	2,00	1,48	32	2,00
35	1,00	0,84	-	-
35	1,50	1,24	35	1,50
35	2,00	1,63	35	2,00
40	1,00	0,96	40	1,00
40	1,50	1,42	-	-
40	2,00	1,87	40	2,00
45	1,50	1,61	45	1,50
45	2,50	2,62	-	-
50	2,00	2,37	50	2,00

Note : Other dimensions are often available for prompt delivery. Please contact our commercial office for any specific request.

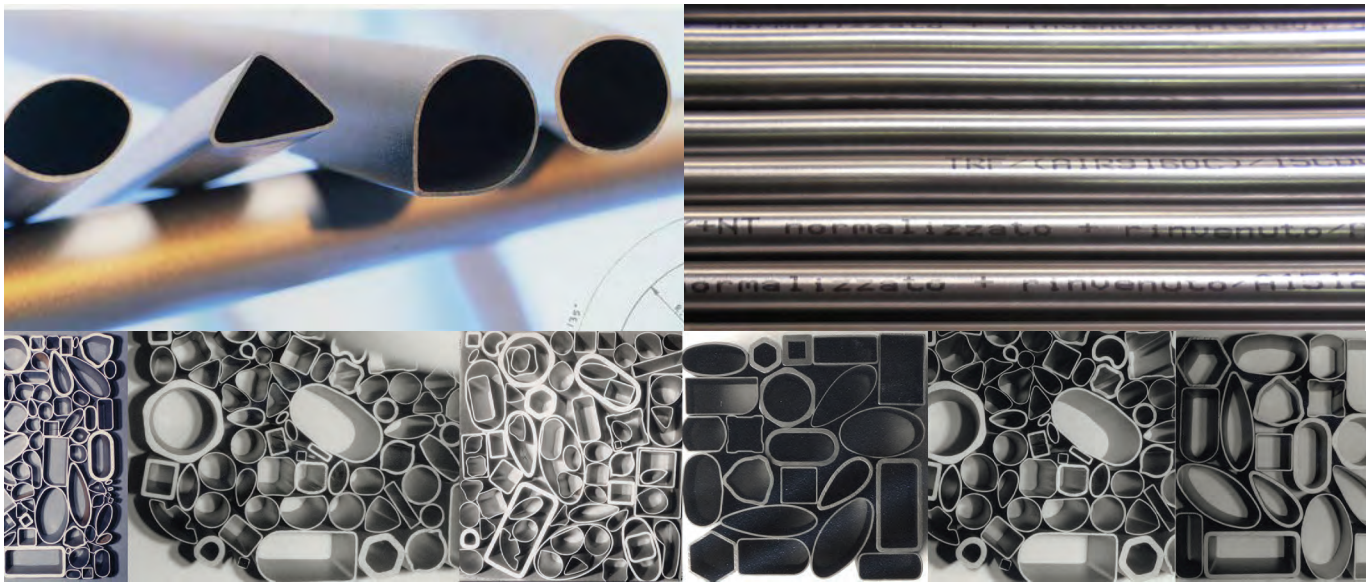
High performance special steels for high-resistance dynamic frames

15CDV6 / 15CrMoV6 / 14CrMoV6.9 / 1.7734

Chemical composition : Carbon 0.15 – Chrome 1.40 – Molybdenum 0.90 – Vanadium 0.25

Applications : High performance welded structures and components / Aviation and automotive / High resistance dynamic frames / Car racing, kart racing, cycle / Engineering

Description and suitability : 15CDV6 is a special steel that was first registered for the first time by Aubert & Duval (known as the famous SCV). In the 80's, Trafiltubi was the first mill who launched the 15CDV6 in Italy and is already the undisputed specialist in its working. It is the most established and highest performance micro alloy steel for the aviation. Highest purity and excellent mechanical characteristic are coupled with high fatigue resistance, optimal weldability and workability as well as suitability to bending.



25CrMo4 / 25CD4 / 1.7218 / 1.7213

Chemical composition : **EN10305-1** C 0,22÷0,29 • Mn 0,60÷0,90 • Si ≤ 0,40 • P ≤ 0,025 • S ≤ 0,035 • Cr 0,90÷1,20 • Mo 0,15÷0,30 / **UNI 6403** C 0,22÷0,29 • Mn 0,50÷0,80 • Si 0,15÷0,35• P ≤ 0,035 • S ≤ 0,035 • Cr 0,90÷1,20 • Mo 0,15÷0,25

Applications : High performance welded structures and components / Aviation / High resistance dynamic frames / Automotive and kart racing / Cycle / Engineering in general

Description and suitability : High performance micro alloy special steel, complying to all aviation specifications, featuring high mechanical performance and outstanding fatigue resistance. Its optimal aptitude to welding and working, as well as easy bending, make it a favourite not only in aviation application, but also for reliable and ultra-light frames for cycles, kart and automotive. It is, still now, one of the best choices for steel in structural applications.

4130 / 30CrMo4 / 1.7216

Chemical composition : **AMS-T-6736A** C 0,27÷0,33 • Mn 0,40÷0,60 • Si 0,20÷0,35 • P e S ≤ 0,025 • Cr 0,80÷1,10 • Mo 0,15÷0,25 / **ASTM A519** C 0,28÷0,33 • Mn 0,40÷0,60 • Si 0,15÷0,35 • P e S ≤ 0,040 • Cr 0,80÷1,10 • Mo 0,15÷0,25

Applications: Ultra-high performance structures and components / Aerospace and aviation / High resistance dynamic frames / Automotive, kart, cycle / Engineering applications in general

Description and suitability : For its optimal workability and weldability, as well as its low hardening, 4130 is widely employed in aviation and defence applications. It is a Chrome-Molybdenum steel widely used in the US. Its commercial grade is used in gas and oil applications.

High performance special steels for high-resistance dynamic frames

Hinoxtube® / X4CrNiMo16.5.1 / 1.4418

Chemical composition : Carbon 0.06 – Chrome 16.00 – Nickel 4.00 – Molybdenum 1.00

Applications : Ultra-high performance structures and components / Nuclear and other energy / Aerospace and aviation / Car and kart racing, cycle / Transportation in general / Medical and radiological instruments / Food Industry / Architecture and design.

Description and suitability : Hinoxtube®'s exclusive features couple the high level mechanical properties of martensitic steels with the optimal weldability and corrosion resistance of the best austenitic steels. Its resistance is very high and the tube can be welded on thicknesses down to 0.4 mm without losing its properties.
It is very resistant to corrosion, to salt water action and to organic or mineral acid. Superbly finished and easy to clean, it is exempt from decay in time and with usage.
Its high elastic modulus (211,000 MPa, double the modulus for a titanium tube and triple an aluminium one) makes it optimal for extremely light frames with high degree rigidity. Its dimensional stability (20÷100°C – 0.0001 mm) also ensures the frame's geometrical stability during usage.

HinoxTube® is a patented tube made with

APX4

AUBERT&DUVAL

Specifications

European standards:
- X4CrNiMo16-5-1
- Numerical designation: 1.4418

AIR: Z 8 CND 17-04

Mechanical properties

- Annealed condition: heat to 680 °C followed by air cooling.
  - Brinell Hardness: 270
- Oil quench from 1000/1100 °C. Temper at 400 °C:
  - UTS: 1200 N/mm²
  - 0.2 % Yield strength: 950 N/mm²
  - Elongation (5d): 16 %
  - Impact strength KCU: 100 J/cm²
- Oil quench from 1000/1100 °C. Temper at 580 °C:
  - UTS: 1000 N/mm²
  - 0.2 % Yield strength: 750 N/mm²
  - Elongation (5d): 18 %
  - Impact strength KCU: 120 J/cm²

Composition

Carbon	0.06
Chromium	16.00
Nickel	4.00
Molybdenum	1.00

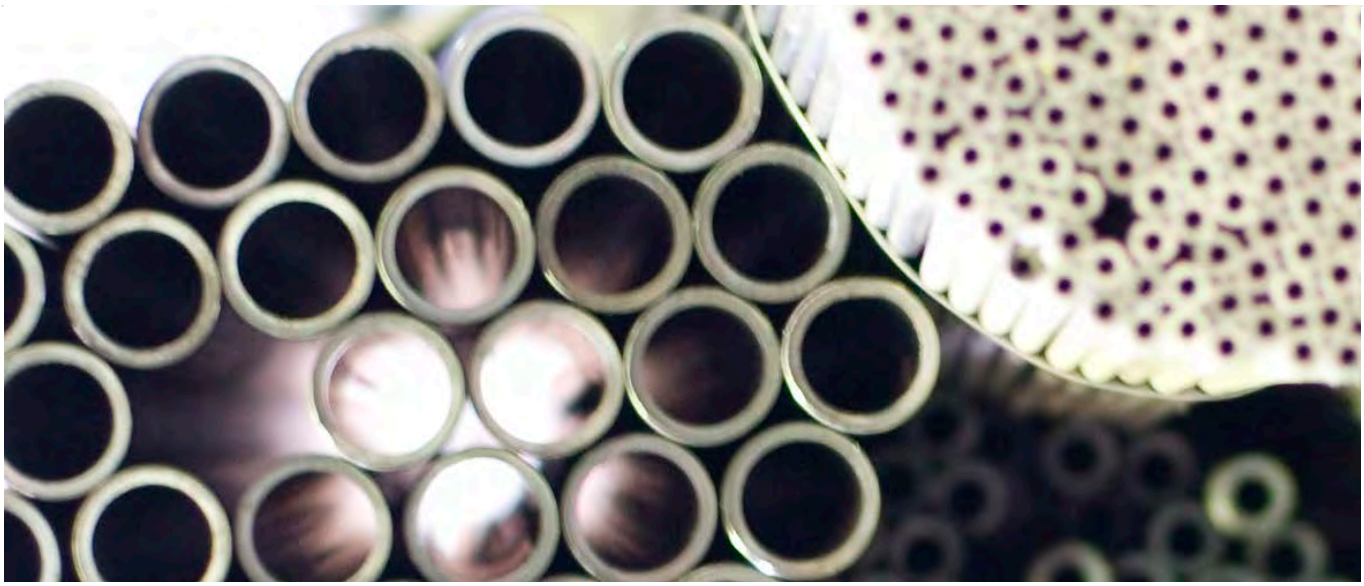
Applications

- Nuclear energy.
- Aerospace industry, marine applications.
- Chemical, oil and steam industry.
- Suitable for manufacture of weldable safety-critical parts.
- Plastics processing industries.

Characteristics

- Martensitic stainless steel, with a level of corrosion resistance between a 13 % chromium steel and the 18-8 series.
- Resistant to sea water, saline atmosphere and salt spray.
- Very good resistance to organic acids and some mineral acids.
- Very suitable where a high polish is required.
- Good weldability.

Stainless steels
Classic and special grades; duplex, superduplex and Inconel



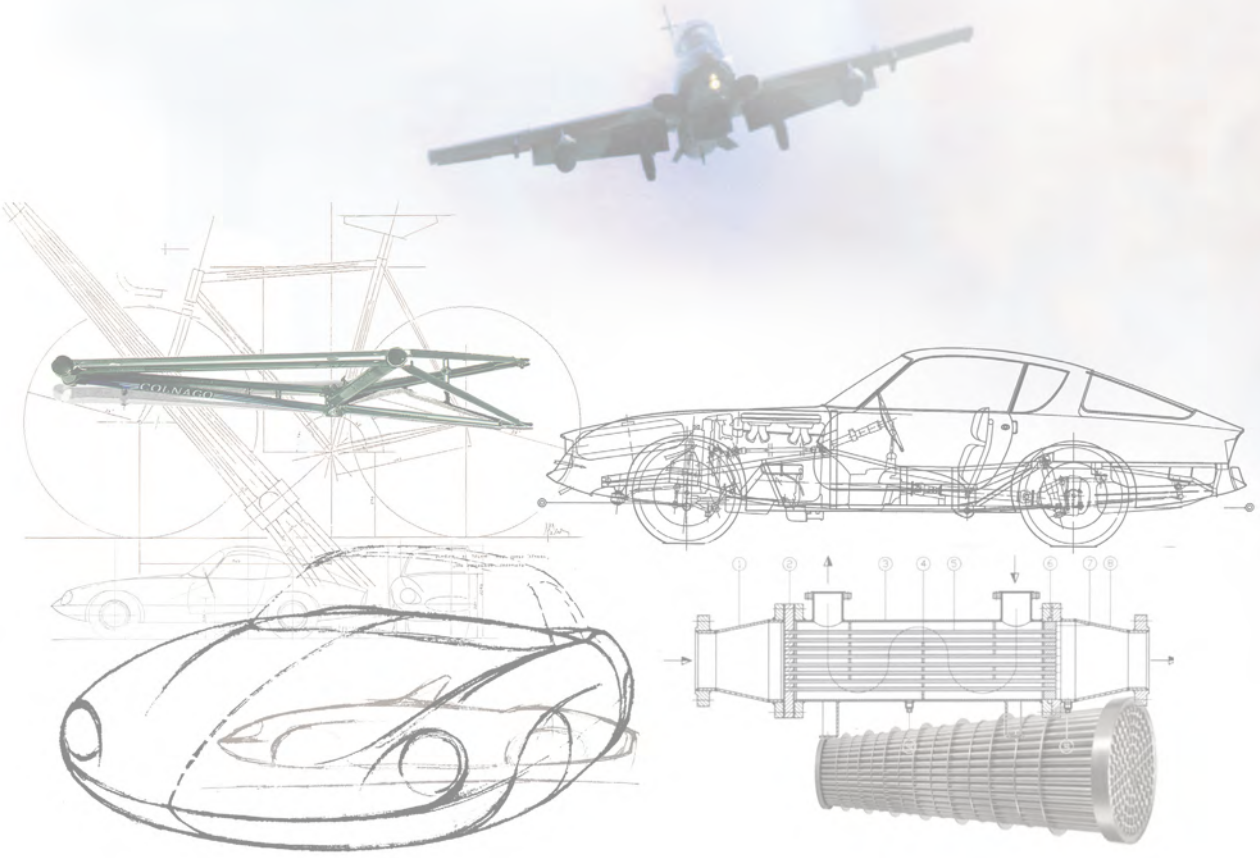
TRAFILTUBI - STAINLESS STEEL GRADES AND RELATED NOMINAL STANDARDS

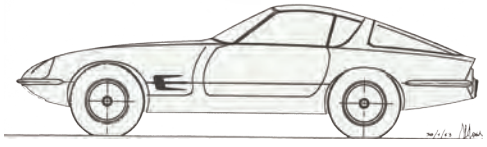
AISI/SAE	EN 100880 WERKSTOFF	UNI	DIN	UNS	AFNOR	B.S.
Hinoxtube® • high corrosion resistance and high weldability martensitic registered name for the Trafiltubi-patented tube • other names for raw material : APX4 / QT900 / 415M						
	1.4418	X4CrNiMo 16-5-1	X4CrNiMo 16-5-1		Z6CND16-05-01	
Duplex and Super Duplex (others on request)						
S32205	1.4462	X2CrNiMoN22-5-3	X2CrNiMoN 22-5-3	S31803	Z3CND22-05Az	318S13
S32750	1.4410	X2CrNiMoN25-7-4	X2CrNiMoN 25-7-4		Z3CND25-06Az	
Nickel-Chrome based austenitic super-alloys other commercial names : Inconel / Incoloy / Monel / Chronin / Altemp / Haynes / Nickelvac / Nicrofer and others						
625	2.4856			N06625		
800/800H	1.4876/1.4958	X10NiCrAlTi32-20		N08800/8810		
825	2.4858			N08825		
Austenitic						
304	1.4301	X2CrNi18-10	X2CrNi18-10	S 30400	Z6CN18-09	304S15
304 L	1.4306	X2CrNi19-11	X2CrNi19-11	S 30403	Z2CN18-09	304S11
304 L	1.4307	X2CrNi18-9	X2CrNi18-9		Z2CN18	304S11
304 H	1.4948	X6CrNi18-10		S30409		
316	1.4401	X5CrNiMo17-12	X5CrNiMo17-12	S 31600	Z6CND17-11	316S31
316 H	1.4919	X6CrNiMoB17-12-2			Z6CND17-13 B	
316 L	1.4404	X2CrNiMo17-12	X2CrNiMo17-13-2	S 31603	Z2CND17-12	316S11
316 Ti	1.4571	X6CrNiMoTi17-12	X6CrNiMoTi17-12-2	S 31635	Z6CNDT17-12	320S31
317	1.4449	X5CrNiMo18-15	X3CrNiMo18-12-3	S 31700		317S16
317 L	1.4438	X2CrNiMo18-16	X2CrNiMo18-15-4	S 31703	Z2CND19-15-04	317S12
321	1.4541	X6CrNiTi18-11	X6CrNiTi18-10	S 32100	Z6CNT18-10	321S31
321 H	1.4878	X8CrNiTi18-11	X12CrNiTi18-9	S 32100	ZCNT18-12	
Heat resistant austenitic (others on request)						
347	1.4550	X6CrNiNb18-11	X6CrNiNb18-10	S 34700	Z6CNNb18-10	347S31
347 H	1.4961	X8CrNiNb16-13		S 34709		
309 S	1.4833	X6CrNi23-14	X12CrNi23-13		Z15CN23-13	309S16
310 S	1.4845	X6CrNi25-21	X8CrNi25-21		Z8CN25-20	310S16
Super-austenitic (others on request)						
904 L	1.4539	X1NiCrMoCu25-20-5	X1NiCrMoCu25-20-5		Z1NCDU25-20	
Martensitic (others on request)						
410	1.4006		X12Cr13	S 41000	Z10C13	410S21

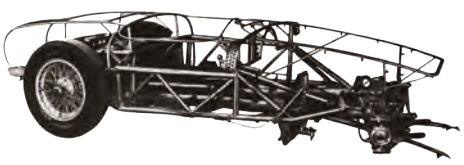
TRAFILTUBI

TUBI DI ACCIAIO TRAFILATI A FREDDO

Trafiltubi has been certified since 1997. All our tubes are 3.1 tested. Our internal lab performs the strictest standard tests on every outgoing product, including every additional test on demand: all types of mechanical or metallographic tests and reports, chemical analyses, visual and dimensional checks / Eddy Current concentric coil + rotating probe technique /not only on round but also on any shaped tube / liquid penetrant inspections / hydraulic test / ultrasonic test / and other. Each tested sample, together with an intact sample, is stocked and available for at least one year.







Trafiltubi is also the historic Gilco brand: visit *gilcodesign.com*

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