

CARBON STEEL PIPE

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OUR RESOURCES

Our more than 265,000 m² of warehouse space spread across 18 locations in Spain and Portugal, including a valve factory, and our active presence in 15 countries, allow us to provide a comprehensive service in any part of the world.

The cutting-edge technology present in our departments enables us to verify stock, offers, etc., as well as schedule deliveries and inform our customers in a quicker and more reliable way.

Our special equipment and approved personnel conduct non-destructive testing, such as ultrasound, penetrating liquids, magnetic particles, PMI and hardness tests, in our facilities.

OUR TEAM

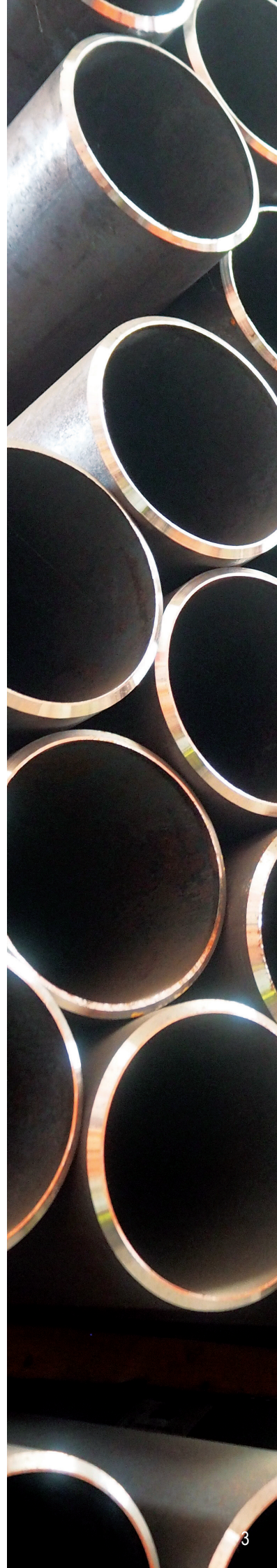
The qualified personnel and group of engineers in our Quality Department apply all their experience to the service of our customers with the purpose of collaborating the response to any inquiry or need. Our highly qualified and experienced personnel in the Procurement and Expediting Departments guarantee efficient assistance throughout the world with all types of supplies, providing solutions and adapting to the needs of our customers.

OUR EXPERIENCE

Over 50 years supplying special alloy and steel materials to the entire industry, in accordance with ASME, ASTM, EN codes and standards, among others.

We constantly maintain an **Environmental Management System** and a **Quality Management System**, in accordance with ASME and ISO requirements, which have been approved by the main engineering and industry companies and supervisory bodies, as well as certified by Lloyd's Register Quality Assurance, according to ISO 9001 and ISO 14001 standards, respectively.

Occupational Risk Prevention (ORP) has become a strategic activity in any company's daily management, and, to this end, we have obtained the OHSAS 18001 certification with the purpose of reducing the health and safety risks within the working environment of our employees, customers and general public.





CARBON STEEL PIPE

Grupo Cuñado uses premium steel pipe suppliers. The materials that we supply to our customers meet the most stringent quality standards.



EXTERNAL DIAMETERS (IN NOMINAL INCHES)*

1/2 | 3/4 | 1 | 1.1/4 | 1.1/2 | 2 | 2.1/2 | 3 | 3.1/2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 24

* These are the most common diameters Cuñado Group works with.

EQUIVALENCES BETWEEN NOMINAL PIPE SIZE (NPS) AND NOMINAL DIAMETER (DN)

NPS	DN	NPS	DN	NPS	DN	NPS	DN
1/2"	12	2"	50	6"	150	16"	400
3/4"	20	2 1/2"	65	8"	200	18"	450
1"	25	3"	80	10"	250	20"	500
1 1/4"	32	3 1/2"	90	12"	300	24"	600
1 1/2"	40	4"	100	14"	350	30"	800

SCHEDULES

5 | 10 | 20 | 30 | STD | 40 | 60 | XS | 80 | 100 | 120 | 140 | 160 | XXS

PIPE ENDS

Lengths:

Double Length.
Commercial Length.
Other lengths tailor made to our customers' needs.



FLAT

For socket weld connections



THREADED

For threaded connections



BEVELLED

For butt welded connections





REFERENCES WE CAN OFFER

DIN LINES

- Seamless and welded steel pipes for lines, devices and containers.
- Standard: UNE-EN 10255.
- Grade: S 195T.

UNE-EN BOILERS

- Seamless heat-resistant steel pipes.
- Standard: UNE-EN 10216-2.
- Grades: P 235 GH and P 265 GH.

CALIBRATED

- Electrically welded and seamless steel precision pipes, cold drawn.
- Standards: UNE-EN 10305-1 and UNE-EN 10305-2.

BLACK GALVANIZED

- Resistance welded pipes for water and steam lines. In black and galvanized.
- Standards: ISO 65L-II and UNE-EN 10255.
- Grade: S195T.

ASTM LINES

- Steel pipes for general lines.
- Standard: ASTM A-53.

HIGH TEMPERATURES AND FURNACES

- Pipes for high temperature lines and furnaces.
- Standard: ASTM A-106.
- Grades: A, B and C.

HEAT EXCHANGERS

- Pipes for heat exchangers.
- Standard: ASTM A-178.
- Grades: A, C and D.
- Standard: ASTM A-179.
- Standard: ASTM A-209.
- Standard: ASTM A-209.
- Grades: T1, T1a and T1b.
- Standard: ASTM A-213.
- Grades: T2, T5, T5b, T5c, T9, T11, T12, T17, T21, T22, T91 and T92.
- Standard: ASTM A-214.

ELECTRICAL CONDUITS

- Rigid conduits for electrical uses.
- Standard: ANSI C.80.

STRUCTURAL PIPES

- Square/rectangular profile.
- Standard: UNE-EN 10219-1.
- Grades: S275 JOH and S335J2H.

ALLOYS

- High temperature pipes.
- Standard: ASTM A-335.
- Grades: P1, P2, P5b, P5c, P9, P11, P12, P15, P21, P22 and P91.

LOW TEMPERATURES

- Low temperature pipes.
- Standard: ASTM A-333 and ASTM A-334.
- Grades: 1, 3, 4, 6, 7, 8, 9, 10 and 11.

LINE PIPES

- Seamless and welded steel pipes.
- Standard: API 5-L.
- Grades: A, B, X42, X46, X52, X56, X60, X65, X70 and X80.

DRILLING

- Drilling, casing and tubing pipes.
- Standard: API-5CT.

HIGH RELIABILITY

- Electric fusion welded steel pipes for applications requiring high reliability in diameters from 16".
- Standards: ASTM A-671, ASTM A-672 and ASTM A-691.

MECHANICAL USE

- Pipes for mechanical use.
- Standard: UNE-EN 10297-1.
- Grade: E-355.

ASTM BOILERS

- Pipes for boilers and other uses at high pressure and/or temperature.
- Standard: ASTM A-192.
- Standard: ASTM A-210.
- Grades: A1 and C.
- Standard: ASTM A-213.
- Grades: T5, T9, T11, T21, T22 and T91.



SOME STANDARDS AND QUALITIES BY TYPE OF MATERIAL *

ITEM	SEAMLESS PIPES	TUBING
DIMENSIONAL STANDARD	ASME B 36.10	Included in the ASTM
CARBON STEEL	ASTM A 53/A 106 Gr B/API 5L Gr B ASTM A 106 Gr C	ASTM A 513-W (A 178-W) ASTM A 512-S (A 179-S)
CARBON STEEL FOR LOW TEMPERATURES	ASTM A 333 Gr 3 ASTM A 333 Gr 6	ASTM A 334 Gr 3 ASTM A 334 Gr 6
CARBON STEEL HIGH YIELD	API 5L X42 (L290) API 5L X46 (L320) API 5L X52 (L360) API 5L X56 (L390) API 5L X60 (L415) API 5L X65 (L450) API 5L X70 (L485)	
ALLOY STEEL	ASTM A 335 P1 ASTM A 335 P5 (5Cr) ASTM A 335 P9 (9Cr) ASTM A 335 P11 (11/4 Cr-1/2Mo) ASTM A 335 P12 (1Cr-1/2Mo) ASTM A 335 P22 (21/4Cr-1Mo) ASTM A 335 P91	ASTM A 213 T2 ASTM A 213 T5 ASTM A 213 T9 ASTM A 213 T11 ASTM A 213 T12 ASTM A 213 T91

*For other qualities, please ask.

EQUIVALENCE BETWEEN DIN AND EN STANDARDS

		STANDARD	QUALITY	STANDARD	QUALITY	WERKSTOFF NO.
CARBON STEEL	SEAMLESS PIPES	DIN 2440	-	EN 10255	S195T	-
		DIN 2448	37.0	EN 10216-1	P235 TR1 (CE) or TR2(CE)	1.0254 / 1.0255
			44	EN 10025-2	P275JR	1.0044
			52	EN 10025-2	S355J2H	1.0577
			35.8	EN 10216-1 EN 10216-2	P235 TR2 P235 GH	1.0255 1.0345
		DIN 1626/2458	37.0 42.0	EN 10216-2	195 TR1 / TR2 235 TR1 / TR2	1.0107 / 1.0108 1.0254 / 1.0255
		ASTM A 106	Gr.B	EN 10216-2	P235GH	1.0425
		API 5L	Gr.B	EN 10216-2	P235GH	1.0425
		API 5L (HIGH YIELD CARBON STEEL)	X42	EN 10216-3	P275N	1.0488 / 1.1104
			X46-X52	EN 10216-3	P355N	1.0562 / 1.0565 / 1.0566 / 1.1106
			X56-X70	EN 10216-3	P460N	1.8905 / 1.8935 / 1.8915 / 1.8918
			X80-X90	EN 10208-2	P620N	1.8876 / 1.8877 / 1.8890
		API 5L (FUEL LINE)	Gr.B	EN 10208-2	L245NB	1.0457
			X42	EN 10208-2	L290NB	1.0484
			X46	EN 10208-2	-	-
			X52	EN 10208-2	L360NB/QB	1.0582 / 1.8948
			X56	EN 10208-2	-	-
			X60	EN 10208-2	L415NB/QB	1.8972 / 1.8947
			X70	EN 10208-2	L485QB	1.8955
			X80	EN 10208-2	L555QB	1.8957



		STANDARD	QUALITY	STANDARD	QUALITY	WERKSTOFF NO.
CARBON STEEL	WELDED PIPES	DIN 2440	-	EN 10255	S195T	-
		DIN 2458	-	EN 10217-1	195 TR1 / TR2	1.0107 / 1.0108
					235 TR1 / TR2	1.0254 / 1.0255
					265 TR1 / TR2	1.0258 / 1.0259
		ASTM A672	Gr 65	EN 10217-5	P235GH/P265GH	1.0345 / 1.0425
			Gr 70	EN 10217-5	P265GH/16Mo3	1.0425 / 1.5415
		ERW API5L/ASTM A 53	Gr. B	EN 10217-2	P235GH	1.0425
			X42	EN 10217-3	P275N	1.0488 / 1.1104
			X46-X52	EN 10217-3	P355N	1.0562 / 1.0565 / 1.0566 / 1.1106
			X56-X70	EN 10217-3	P460N	1.8905 / 1.8935 / 1.8915 / 1.8918
			X80-X90	EN 10217-3	P620N	1.8876 / 1.8877 / 1.8890
			API5L (FUEL LINE)	Gr.B	EN 10208-2	L245MB
	X42	EN 10208-2		L290MB	1.0429	
	X52	EN 10208-2		L360MB	1.0578	
	X60	EN 10208-2		L415MB	1.8973	
	X65	EN 10208-2		L450MB	1.8975	
	X70	EN 10208-2		L485MB	1.8977	
	STRUCTURAL PIPE	ASTM A500 (C)	Gr.B	EN 10219	S355JOH / S355J2H	1.0547 / 1.0576
EN 10297				E315 / E355	1.0236 / 1.0580 (1.0920 with charpy)	
LOW TEMPERATURE CARBON STEEL	PIPES	ASTM A333	Gr.3	EN 10216-4	12Ni14	1.5637
			Gr.6	EN 10216-4	P265NL	1.0453
		ASTM A671	Gr.60	EN 10217-6	P215NL	1.0451
			Gr.70	EN 10217-6	P265NL	1.0453
ALLOY STEEL	SEAMLESS PIPES	ASTM A-335	P1	EN 10216-2	16Mo3	1.5415
				EN 10216-2	8MoB5-4	1.5450
			P2	EN 10216-2	14MoV6-3	1.7715
			P5	EN 10216-2	X11CrMo5	1.7362
			P9	EN 10216-2	X11CrMo9-1	1.7386
			P11	EN 10216-2	10CrMo5-5	1.7338
			P12	EN 10216-2	13CrMo4-5	1.7335
			P22	EN 10216-2	10CrMo9-10	1.7380
			P91	EN 10216-2	X10CrMoVNb9-1	1.4903



Calle Camino del Olivar, 2 (Esquina Calle México)
28806 Alcalá de Henares, Madrid (SPAIN)
Tel.: (+34) 91 887 87 00 - Fax: (+34) 91 887 87 33
info@grupocunado.com

SPAIN

ANDALUCIA: SEVILLA, HUELVA & ALGECIRAS (+34) 955.63.06.12 - andalucia@cunado.com

ARAGON: ZARAGOZA (+34) 976.18.52.58 - aragon@cunado.com

CANARIAS: LAS PALMAS & TENERIFE (+34) 928.70.05.00 - canarias@cunado.com

CASTILLA LA MANCHA: PUERTOLLANO (+34) 926.46.00.55 - clm@cunado.com

CASTILLA Y LEON: VALLADOLID (+34) 983.52.86.00 - ventascastillaleon@cunado.com

CATALUÑA: BARCELONA, GERONA & TARRAGONA (+34) 93.575.24.24 - cataluna@cunado.com

GALICIA: VIGO (+34) 986.34.26.06 - galicia@cunado.com

LEVANTE: VALENCIA & CARTAGENA (+34) 96.181.92.00 - levante@cunado.com

MADRID: (+34) 91.887.87.00 - madrid@cunado.com

NORTE: BILBAO & GIJON (+34) 94.453.31.54 - norte@cunado.com

INTERNATIONAL

CTA, LDA. (PORTUGAL): (+351) 217.995.280 - info@cta.pt

CUINTER (CHILE): (+56) 2.2787.0300 - mail@cunado.cl

CUÑADO ASIA CORPORATION (CHINA): (+86) 21.2024.8130 - info@cunadoasia.com

CUÑADO SINGAPUR: yiguo.zeng.cas@cunadoasia.com

CUÑADO BOLIVIA: (+591) 3.3110683 - bolivia@grupocunado.com

CUÑADO BORU (TURKEY): (+90) 262.37.37.014 - info.turkey@grupocunado.com

CUÑADO CANADA: info.canada@grupocunado.com

CUÑADO COLOMBIA: (+51) 320.532.2498 - info.colombia@grupocunado.com

CUÑADO DUBAI (UAE): info.dubai@grupocunado.com

CUÑADO FRANCE: + 33 (0) 603 71 19 77 - info.france@grupocunado.com

CUÑADO MEXICO: (+52) 55.5254.04.05 - cumex@prodigy.net.mx

CUPERSA (PERU): (+511) 416 62 00 Anexo 101 - info@grupocunado.pe

CUVENSА (VENEZUELA): (+58) 241.871.75.06 - finanzas@cuvensa.com

CUÑADO CENTRAL EUROPE (GERMANY): (+49) 7254 9271 0 - info@flaboform.de

CUÑADO POLAND: (+48) 32 32913 68 - info@flaboform.pl

CUÑADO CZECH REP.: (+420) 596 6335 18 - info@flaboform.cz

ITF, INC. (USA): (+1) 713.952.4111 - itfinc@cunadousa.com

OMEGA INDUSTRIAL (USA): (+1) 225.749.9808 - info@omega-industrial.com

RAGENSA (PERU): (+511) 416 62 00 Anexo 101 - info@grupocunado.pe

www.grupocunado.com

