

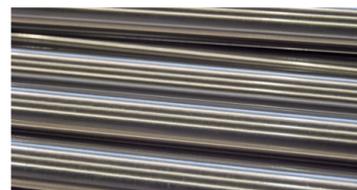


PRODUCTO / Product

Varilla y Barra redonda Round bars	ACABADOS FINISHES EN 10.088	DIÁMETROS DIAMETERS Ø	CLASE EN10277	TOLERANCIA TOLERANCE	PROPIEDADES MECÁNICAS *MECHANICAL PROPERTIES			LONGITUD LENGTH (mm)
					R _m (Mpa)	R _{p 0.2%} (Mpa)	A (5*D) %	
Barra laminada / Rolled Bar								
Redondo negro Black bar	1C / 1U	16 - 130		DIN 1013 / ASTM-484	480- 750	> 250	> 30	3.000- 6.200
Redondo negro enderezado para descortezar Straightened black bar for smooth turned purposes	1C / 1U	30 - 130		DIN 1013 / ASTM-484	480- 750	> 250	> 30	3.000- 6.200
Redondo enderezado y decapado Straightened and pickled bar	1D	5,00 - 130		DIN 1013 / ASTM-484	480- 750	> 210	> 20	3.000- 6.200
Barra redonda. Posibilidad de rectitud 0,5 mm/m / Round bars. Possibility of straightness 0.5 mm/m on request								
Barra conformada en caliente Hot formed bar	1X	25,00 - 125,00	2	IT11/IT12/IT13 ASTM-484	500- 750	> 175	> 40	3.000- 6.200
Barra pulida Polished bar	2H	2,00 - 90,00	3	IT9/IT10/IT11 ASTM-484	480- 690	> 175	> 40	3.000- 6.200
Barra rectificada Centerless ground bar	2B	6,00 - 90,00	3	IT9/IT10/IT11 ASTM-484	500 - 950	> 250	> 40	3.000- 6.200
	2G	4,00 - 85,00	4	IT8/IT9/ ASTM-484 IT7 consultar/request	500 - 950	> 250	> 40	3.000- 6.200
Barras de altas propiedades mecánicas. Construcción / High mechanical properties bar. Building*								
Se ofrece en diferentes acabados superficiales It is offered in different surface finishes	2H 2B 2G	5,00 - 25,00	3 y 4	h11 / h9 / ASTM-484	> 700	> 550	> 15	3.000- 6.200
Barra Hexagonal ⁽¹⁾ Hexagonal bar	2H	11-12-13-14-15 17-18-19-22-23 24-27-30		h11/ASTM-484	700- 850	> 350	> 20	2.000- 6.100
Barra Cuadrada Square bar	2H	⁽²⁾ 16-20-25		h11 / ASTM-484	700- 850	> 350	> 20	2.000- 6.100



Barra laminada
Rolled bar



Barra redonda acabado laminado, caliente, frío y rectificado.
Rolled bar, hot rolled cold rolled and centerless ground finish.



Barra redonda acabado laminado, caliente, frío y rectificado.
Rolled bar, hot rolled cold rolled and centerless ground finish.

* Valores orientativos para los grados 1.4305 - 1.4301/07 - 1.4401/04. Sin valor contractual. Para más detalle, contactar con la Red Comercial de Acerinox
Approximate values for grades 1.4305 - 1.4301/07 - 1.4401/04. No contractual value. For more details, contact the Acerinox Group Sales Network

⁽¹⁾ Consultar medidas en pulgadas / Inches sizes on request

⁽²⁾ Consultar otras medidas / Other sizes on request



www.acerinox.com



Control de Calidad - Equipos de inspección Quality Control - Inspection equipment

	DEFECTOMAT Equipo de corrientes inducidas para la detección de defectos transversales Eddy current equipment for the detection of transverse defects.
	CIRCOGRAPH Detección de defectos superficiales fundamentalmente de orientación longitudinal. Detection of surface defects, primarily of longitudinal orientation.
La combinación de ambos equipos realiza una verificación completa de todo tipo de defectos superficiales. The combination of both devices performs a complete verification of all types of surface defects.	
	ULTRASONIC TEST Metodo para detectar discontinuidades internas como grietas, inclusiones, porosidad, y otros defectos, sin dañar el material. Method for detecting internal discontinuities such as cracks, inclusions, porosity, and other defects, without damaging the material.

Embalajes / Packaging

PLÁSTICO Plastic film	CAJA DE MADERA Wooden Box	SIN EMBALAJE Without packaging
En todos los tipos de embalajes se podrán SOLICITAR DOS eslingas ahorcadas . For all types of packaging, TWO HANDGED slings may be REQUESTED.		

Homologaciones / Official Approvals

Management Systems Sistema de Gestión ISO 9001:2015 ISO 14001:2015 ISO 50001:2018 www.tuv.com ID: 0091003143	Products Homologations 0432 11 0432-CFR-00190-01 Z-30.3-6 MPA NRW
 CERTIFICACIÓN DEL SISTEMA DE SEGURIDAD ISO 45001	 046501 0002 Validate with the CARES Cloud App
 AENOR ORGANIZACIÓN SALUDABLE	 PED Approved Material AD2000 W2/W10

Fábricas Factories



Acerinox Europa, S.A.U.



Roldan, S.A.



Inoxfil, S.A.U.



North American Stainless, INC



Columbus Stainless (PTY) LTD



VDM Metals



HAYNES International



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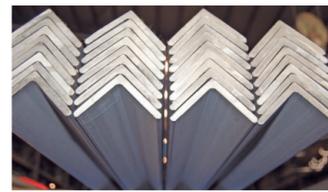
ROL DAN

Catálogo de producto product catalogue

TIPOS DE ACERO INOXIDABLE STAINLESS STEEL GRADES

ESTRUCTURA	NORMA EUROPEA EN 10.088 EUROPEAN STANDARD EN 10.088		COMPOSICIÓN QUÍMICA (%) CHEMICAL COMPOSITION (%)										EQUIVALENCIAS INT. STANDARDS	
	Nº Acero / Designación Steel Code / Designation	Código ACX ACX Code	C	Si	Mn	P	S	N (ppm)	Cr	Cu	Mo	Ni	Ti	AISI
AUSTENÍTICOS / AUSTENITIC	1.4305	076	≤0.10	≤1.00	≤2.00	≤0.045	0.25 - 0.35	≤1000	17.00 - 19.00	-	-	8.00 - 10.00	-	303
	1.4310	107	<0.120	<0.75	<2.00	<0.045	<0.015	<1000	18.00-19.00	-	<0.60	8.00-10.00	-	302
	1.4310	116	<0.100	<0.75	<2.00	<0.045	<0.015	<1000	17.50-18.50	-	<0.60	8.50-9.50	-	302
	1.4310	145	<0.080	<0.75	<2.00	<0.045	<0.015	<700	18.00-19.00	-	<0.60	8.50-9.50	-	302
	1.4301	125	≤0.07	≤0.75	≤2.00	≤0.045	≤0.030	≤1000	18.00-19.00	-	-	8.00-9.00	-	304
	1.4301	126	≤0.07	≤0.75	≤2.00	≤0.045	≤0.030	≤700	18.00-19.00	-	-	8.50-9.50	-	304
	1.4541	196	0.04-0.10	≤1.00	≤2.00	≤0.045	≤0.030	-	17.00-19.00	-	-	9.00-12.00	4(C+N) a 0.70	321H
	1.4541	296	≤0.08	≤1.00	≤2.00	≤0.045	≤0.030	-	17.00-19.00	-	-	9.00-12.00	5(C+N) a 0.70	321
	1.4541	297	≤0.07	≤0.75	≤2.00	≤0.045	≤0.030	-	17.00-19.00	-	-	9.00-10.00	5(C+N) a 0.70	-
	1.4307	213	<0.030	<0.75	<2.00	<0.045	<0.030	<1100	17.50-19.50	-	-	8.00-10.00	-	-
	1.4307	216	≤0.03	≤0.75	≤2.00	≤0.045	≤0.030	≤1000	18.00-20.00	-	-	8.00-10.00	-	304L
	1.4307	217	≤0.03	≤0.75	≤2.00	≤0.045	≤0.030	≤1000	18.00-20.00	-	-	8.50-9.50	-	304L
	1.4307	226	<0.030	<0.75	<2.00	<0.045	<0.030	<700	18.00-20.00	-	-	9.00-10.00	-	304L
	1.4307	227	<0.030	<0.75	<2.00	<0.045	<0.030	<700	18.00-20.00	-	-	9.50-10.50	-	304L
	1.4306	232	<0.030	<0.75	<2.00	<0.045	<0.030	<700	18.00-20.00	-	-	10.00-11.00	-	304L
	1.4303	236	<0.030	<0.75	<2.00	<0.045	<0.030	<700	18.00-20.00	-	-	11.00-13.00	-	305
	1.4301	109	<0.070	<0.75	<2.00	<0.045	0.020-0.030	<1100	18.00-19.00	-	-	8.00-9.00	-	304
	1.4307	229	≤0.03	≤0.75	≤2.00	≤0.045	0.020-0.030	≤1000	18.00-18.30	-	-	8.00-8.50	-	304L
	1.4307	239	<0.030	<0.75	<2.00	<0.045	0.020-0.030	<1100	18.00-19.00	-	-	8.50-9.50	-	304L
	1.4567	289	<0.040	<0.75	<2.00	<0.045	0.020-0.030	<1100	17.00-19.00	3.00-3.50	-	8.50-9.00	-	304Cu
	1.4560	276	<0.035	<0.75	1.50-2.00	<0.045	<0.015	<700	18.00-19.00	1.50-2.00	-	8.00-9.00	-	-
	1.4567	283	<0.030	<0.75	<2.00	<0.045	<0.015	<700	17.00-19.00	3.00-3.50	-	8.50-9.00	-	304Cu
	1.4567	286	≤0.02	≤0.75	≤1.00	≤0.045	≤0.015	≤700	17.00-19.00	3.00-3.50	-	8.50-9.00	-	304Cu
	1.4567	287	<0.030	<0.75	<2.00	<0.045	<0.015	<700	17.00-19.00	3.00-3.50	-	9.00-10.00	-	304Cu
	1.4372	022	<0.10	<1.00	5.50-7.00	<0.045	<0.015	1000-1500	16.00-17.00	-	-	3.50-4.50	-	201
	1.4597	023	<0.10	<2.00	6.50-8.50	<0.040	<0.015	1500-3000	16.00-18.00	2.00-3.50	<1.00	<2.00	-	204Cu
	1.4401	302	<0.070	<0.75	<2.00	<0.045	<0.030	<1100	16.50-18.00	-	2.00-2.50	10.00-11.00	-	316
	1.4404	332	<0.030	<0.75	<2.00	<0.045	<0.030	<1100	16.50-18.00	-	2.00-2.50	10.00-11.00	-	316L
	1.4404	333	<0.030	<0.75	<2.00	<0.045	<0.030	<1100	16.50-18.00	-	2.00-2.50	11.00-13.00	-	316L
	1.4404	372	<0.030	<0.75	<2.00	<0.045	<0.030	<1100	16.50-18.00	0.50-1.00	2.00-2.50	11.00-13.00	-	*316L
	1.4571	392	<0.070	<0.75	<2.00	<0.045	<0.030	-	16.50-18.00	-	2.00-2.50	10.50-12.00	5xC-0.70	-
	1.4401	309	<0.070	<0.75	<2.00	<0.045	0.020-0.030	<1100	16.50-18.00	-	2.00-2.50	10.00-11.00	-	316
	1.4404	337	<0.030	<0.75	<2.00	<0.045	0.020-0.030	<1100	16.50-18.00	-	2.00-2.50	10.50-11.00	-	316L
1.4401/1.4404	339	≤0.03	≤0.75	≤2.00	≤0.045	0.020-0.030	≤1000	16.50-18.00	-	2.00-2.50	10.00-11.00	-	316/316L	
1.4432/1.4436	359	<0.030	<0.75	<2.00	<0.045	0.020-0.030	<1100	16.50-18.00	-	2.00-2.50	10.50-11.50	-	316L	
1.4435	369	<0.030	<0.75	<2.00	<0.045	0.020-0.030	<1100	17.00-19.00	-	2.50-3.00	10.50-11.50	-	316L	
1.4571	399	<0.080	<0.75	<2.00	<0.045	0.020-0.030	-	16.50-18.00	-	2.00-2.50	10.50-12.00	5xC-0.70	-	
1.4845	402	<0.080	<1.50	<2.00	<0.045	<0.015	<1100	24.00-26.00	-	-	19.00-22.00	-	310S	
1.4841	406	<0.20	1.50-3.00	<2.00	<0.045	<0.015	<1100	24.00-26.00	-	-	19.00-22.00	-	314	
19-9-L (1.4316)	602	<0.030	<0.30	1.00-2.00	<0.030	<0.030	-	19.50-22.00	-	-	9.00-11.00	-	AMS 308L	
19-9-L (1.4316)	603	<0.030	0.30-0.60	1.00-2.00	<0.030	<0.030	-	19.50-22.00	-	-	9.00-11.00	-	AMS 308L	
19-9-L-S (1.4316)	605	<0.030	0.60-1.00	1.00-2.00	<0.030	<0.030	-	19.50-22.00	-	-	9.00-11.00	-	AMS 308LSI	
19-12-3-L (1.4430)	652	<0.030	<0.30	1.00-2.00	<0.030	<0.030	-	18.00-20.00	-	-	11.00-14.00	-	AMS 316L	
19-12-3-L (1.4430)	653	<0.030	0.30-0.65	1.00-2.00	<0.030	<0.030	-	18.00-20.00	-	2.50-3.00	12.00-14.00	-	AMS 316L	
19-12-3-L-S (1.4430)	655	<0.030	0.65-1.20	1.00-2.00	<0.030	<0.030	-	18.00-20.00	-	2.50-3.00	12.00-14.00	-	AMS 316LSI	
18-8-Mn (1.4370)	672	<0.15	<1.20	5.50-8.00	<0.030	<0.030	-	17.50-19.50	-	-	7.00-8.50	-	-	
18-8-Mn (1.4370)	682	<0.15	<1.20	5.50-8.00	<0.030	<0.030	-	18.50-20.00	-	-	8.00-9.50	-	-	
1.4003	702	<0.030	<1.00	<1.50	<0.040	<0.015	<300	10.50-12.50	-	-	0.30-1.00	-	UNSS40977-3CR12	
1.4016	502	≤0.08	≤1.00	≤1.00	≤0.040	≤0.030	-	16.00-18.00	-	-	-	-	430	
1.4113	512	≤0.08	≤1.00	≤1.00	≤0.040	0.02-0.03	-	16.00-18.00	-	0.90-1.40	-	-	434	
1.4105	519	≤0.08	≤1.50	≤1.50	≤0.040	0.15-0.35	-	16.00-18.00	-	0.20-0.60	-	-	430F	
1.4104	529	≤0.07	≤0.70	≤1.25	≤0.040	0.15-0.35	-	16.00-18.00	-	0.20-0.60	-	-	430F	
1.4021	539	0.16-0.25	≤1.00	≤1.50	≤0.040	≤0.030	-	12.00-14.00	-	-	-	-	431	
1.4005	752	0.06-0.15	<1.00	<1.50	<0.040	0.15-0.35	-	12.00-14.00	-	<0.60	-	-	416	
1.4021	753	0.16-0.25	≤1.00	≤1.50	≤0.04	≤0.03	-	12.00-14.00	-	-	-	-	420	
1.4021	759	0.16-0.25	≤1.00	≤1.50	≤0.04	0.02-0.03	≤250	12.00-14.00	-	-	-	-	420	
1.4482	903	≤0.03	≤0.75	4.00-5.00	≤0.035	≤0.01	500-1800	19.50-21.50	≤1.00	0.10-0.60	1.00-3.00	-	532001	
1.4362	915	<0.030	<0.75	1.30-2.00	<0.035	<0.010	900-1800	22.00-23.00	0.10-0.60	0.10-0.60	3.50-5.50	-	2304	
1.4362	916	<0.030	<0.75	0.50-1.30	<0.035	<0.010	900-1500	22.00-23.00	0.10-0.60	0.10-0.60	3.50-5.50	-	2304	
1.4462	917	<0.030	<0.75	<2.00	<0.035	<0.010	1400-2000	21.00-23.00	-	3.00-3.50	4.50-5.50	-	2205	
1.4542	703	≤0.07	≤0.70	≤1.50	≤0.040	≤0.03	-	18.00-17.00	3.00-5.00	≤0.60	3.00-5.00	5xC-0.45	630	

Otro tipo de acero inoxidable, bajo consulta / Other stainless steel grades on request.



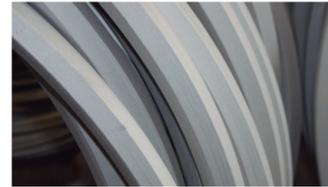
Ángulos / Angles

ÁNGULO ALAS IGUALES Equal legs anglebars	ACABADOS FINISHES EN 10.088	DIMENSIONES DIMENSIONS	NORMA STANDARDS	*LONGITUD LENGTH (mm)
Tipo "mm" / in "mm"	1D	20 x 3- 100 x 10	EN 10056-2 DIN 1028	6.000 - 6.200
Tipo "inches" bajo consulta In "inch" on request	1D	3/4 x 1/8- 4 x 1/2	ASTM-484	6.000 - 6.200

*Posibilidad de suministrar otras longitudes bajo consulta.
Possibility of supplying other lengths upon request.



Alambrón
Wire rod



Alambrón hexagonal
Hexagonal wire rod

ALAMBRÓN Wire rod	ACABADOS FINISHES	DIÁMETROS DIAMETERS	PROPIEDADES MECÁNICAS *MECHANICAL PROPERTIES			PESO / LONGITUD WEIGHT / LENGTH
	EN 10.088	Ø ●	R _m (Mpa)	R _{p 0.2%} (Mpa)	A (5*D) %	*PESO WEIGHT (kg)
Redondo, recocido y decapado Round, annealed and pickled	1D	5,50- 41,50	450 - 690	> 170	> 35	1.000 - 2.000
Redondo Decapado Round D-cooled	-	*43 mm" consultar / request	550 - 800	> 300	> 20	
Cuadrado, recocido y decapado Square, annealed and pickled	1D	**17-21-26				
Hexagonal, recocido y decapado Hexagonal, annealed and pickled Hexagonal decapado Hexagonal D-cooled	1D -	11,50-14-15-16 17-18-19	450 - 690	> 170	> 35	1.000 - 2.000
		20-23-25 28,5-31,5				

Recocido y decapado (posible con Precoat). / Annealed, pickled (precoating available).
* Las propiedades mecánicas son orientativas. / Mechanical properties are approximate.
Tolerancia diámetro: según estándares internacionales / Diameter tolerance: According to international standards.
**Consultar otras medidas / Other sizes request



Corrugado rollo
Reinforcement coils



Barra corrugada
Reinforcement bar

CORRUGADO REINFORCING	DIÁMETROS DIAMETERS	NORMA STANDARD	PROPIED		
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