

ROLDAN, S.A. - Stainless Steels**FACTORY**

Santo Tomás de las Ollas, S/N
Apdo. de Correos 11
PONFERRADA (LEÓN)
TEL.: +34 987 44 61 00
FAX: +34 987 44 61 01
E-MAIL: rdn.fabrica@acerinox.com

**HEAD OFFICE**

Santiago de Compostela, 100-3°
28035 MADRID (ESPAÑA)
TEL.: +34 913 98 52 57
FAX: +34 913 98 51 93
E-MAIL: roldan@acerinox.com

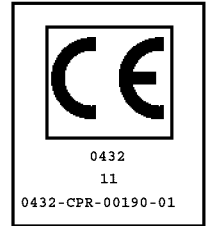
**INSPECTION
CERTIFICATE**

EN 10204 3.1

MADE IN SPAIN - EUROPEAN UNION



Sistema de
Gestión
ISO 9001:2015
ISO 14001:2015
ISO 50001:2018
www.tuv.com
ID 0091003143



CERTIFICATE N° 2023/010584 DATE 15/08/2023 SHEET 1 DELIVERY NOTE N° 2023/001247

GRADE ROLDAMAX-229 EN10088:3 (1.4307.)

CUSTOMER BE GROUP OY AB

DIMENSIONS 30,00 mm. | Surface finish according EN10088-3 Table 7:2B

LENGTH 6.000 mm. TOLERANCE ISO h9

PRODUCT [333] Round bar, annealed, smooth turned, centerless ground, polished, both ends chamfered 45°

REQUIREMENTS EN10088:3

CUSTOMER ORDER

TENSILE TEST EN ISO 6892-1

P106810 3103104

ACCORDING TO EN 10272

EDITION AD2000 W0, W2 & W10

INTERGRANULAR CORROSION EN ISO 3651-2 method A: SATISFACTORY

WITHOUT OBJECTIONS

SURFACE AND DIMENSIONS CONTROL WITHOUT OBJECTIONS

Spektrometrical Identity Test: O.K.

IMPACT TEST, SAMPLE DIMENSIONS EN ISO 148-1

MATERIAL FREE FROM RADIOACTIVITY

EN 10.088:5

PRODUCTION PROCESS

EAF + AOD +CC

TRADE MARK**RDN****MARKING**

HEAT NUMBER

GRADE (ACX-229)

INSPECTOR STAMP**R3****QUALITY INSPECTOR**

JUAN JOSE ALVAREZ RODRIGUEZ

QUALITY CONTROL REPRESENTATIVE
MECHANICAL PROPERTIES

CAST	SAMPLE	SAMPLE DIMENSIONS	Observ. T°.	Rm MPa	Rp 0,2% MPa	Rp 1% MPa	Z %	A %		Agt %	IMPACT STRENGTH ISO-V (J)		HARDNESS HB	FATIGUE TEST	BEND TEST	CROSS SECTIONAL AREA mm ²	Kg / m
								L=50	L=40		20 °C	-196 °C					
2VXB	2VXB		20 °C	711	443	530	68	49	50				190				
REQUIREMENTS		EN ISO 377		500 900	175	210		20			100		315				

CHEMICAL COMPOSITION %

CAST	C	P	S	Si	Mn	Cr	Ni	Mo	Ti	N	Cu	Co				
2VXB	0,0230	0,0260	0,0220	0,4620	1,4300	18,1450	8,0350	0,3720	0,0040	0,0930	0,3350	0,1330				
REQUIREMENTS	0,0300	0,0450	0,0300	1,0000	2,0000	17,5000 19,5000	8,0000 10,5000			0,1000						

OBSERVATIONS**OTHER TEST RESULTS**

HEAT TREATMENT

1.050 °C AND WATERCOOLED

REQUIREMENTS

Crack tested acc. to EN10277 table 3 class 3

AD2000 W0,W2,W10 | 2014/68/EU(PED) | UKCA PER 2016/1105

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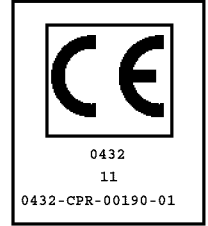
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0432
11
0432-CPR-00190-01

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CUSTOMER	BE GROUP OY AB
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 QUALITY CONTROL REPRESENTATIVE

ORDER N°	WORKS N°	MARKS / BOX	HEAT NUMBER	SAMPLE	WEIGHT
MA6797 21		47004 / RK42986-	2VXB		269