

ROLDAN, S.A. - Stainless Steels

FACTORY

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INSPECTION CERTIFICATE

EN 10204 3.1

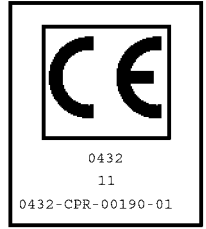
201 Declaration: the Product is
in compliance with the order

MADE IN SPAIN - EUROPEAN UNION



Sistema de
Gestión
ISO 9001:2015
ISO 14001:2015
ISO 50001:2018

www.tuv.com
ID 0091003143



EN 10.088:5

CERTIFICATE N°	2023/007642	DATE	28/04/2023	SHEET	1	DELIVERY NOTE N°	2023/001319
GRADE	ROLDAMAX-229		EN10088:3 (1.4301/1.4307.)				
CUSTOMER	BE GROUP OY						
DIMENSIONS	15,00 mm.		Surface finish according EN10088-3 Table 7:2H				
LENGTH	6.000 mm.		TOLERANCE	ISO h9			
PRODUCT	[341] Round bar, annealed, pickled, cold drawn, polished, both ends chamfered 45°						
REQUIREMENTS	EN10088:3			CUSTOMER ORDER			
TENSILE TEST	EN ISO 6892-1			P104936			
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			

ORDER N°	WORKS N°	MARKS / BOX	HEAT NUMBER	SAMPLE	WEIGHT
MA07035 6	MA07035 6 1	35025 / JL30124	2PPH	2PPH	450
	MA07035 6 1	35026 / JL30125	2PPH		549

PRODUCTION PROCESS
EAF + AOD + CC

TRADE MARK
RDN

MARKING
HEAT NUMBER
GRADE (ACX-229)

INSPECTOR STAMP
R3

QUALITY INSPECTOR
JUAN JOSE ALVAREZ RODRIGUEZ
[Signature]
QUALITY CONTROL REPRESENTATIVE

CAST	SAMPLE	SAMPLE DIMENSIONS mm.	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						
2PPH	2PPH	15,00	20 °C	745	587	698	66	40	41					222				
REQUIREMENTS		EN ISO 377		500 900	190	225		20			100			315				

CAST	C	P	S	Si	Mn	Cr	Ni	Mo	Ti	N	Cu	Co				
2PPH	0,0250	0,0290	0,0270	0,3050	1,5710	18,3400	8,0450	0,3700	0,0040	0,0930	0,4700	0,1930				
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	AD2000 W0,W2,W10 2014/68/EU(PED) UKCA PER 2016/1105
				Crack tested acc. to EN10277 table 3 class 3

CER. INZ