

ROLDAN, S.A. - Stainless Steels

FACTORY

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INSPECTION CERTIFICATE

EN 10204 3.1



Sistema de
Gestión
ISO 9001:2015

www.tuv.com
ID 0091003143

MADE IN SPAIN - EUROPEAN UNION

CERTIFICATE N° 2022/013031 DATE 27/04/2022 SHEET 1 DELIVERY NOTE N° 2022/002352

GRADE ROLDAMAX-229 EN10088:3 (1.4307.)

CUSTOMER LEMVIGH MÜLLER AS

DIMENSIONS 12,00 mm. | Surface finish according EN10088-3 Table 7:2H

LENGTH 3.000 mm. TOLERANCE ISO h9

PRODUCT [341] Round bar, annealed, pickled, cold drawn, polished, both ends chamfered 45°

REQUIREMENTS EN10088:3 CUSTOMER ORDER 4500625657

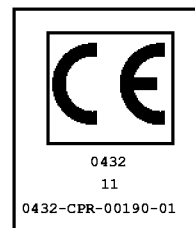
TENSILE TEST EN ISO 6892-1

ACCORDING TO EN 10272 EDITION AD-2000 W2 AD-2000 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

ORDER N°	WORKS N°	MARKS / BOX	HEAT NUMBER	SAMPLE	WEIGHT	PRODUCTION PROCESS	INSPECTOR STAMP
MA02895 1	MA02895 1 1	95001 / JK95106	1WVB	1WVB	489	EAF + AOD +CC	R3
	MA02895 1 1	95002 / JK95108	1WVB		460		
	MA02895 1 1	95003 / JK95111	1WVB		466		
	MA02895 1 1	95004 / JK95114	1WVB		465		
	MA02895 1 2	95005 / JK95120	1WVB		472		
						TRADE MARK	QUALITY INSPECTOR
						RDN	JUAN JOSE ALVAREZ RODRIGUEZ
						MARKING	QUALITY CONTROL REPRESENTATIVE
						HEAT NUMBER	
						GRADE (ACX-229)	

MECHANICAL PROPERTIES																		
CAST	SAMPLE	SAMPLE DIMENSIONS mm.	Observ. T°.	Rm MPa	Rp 0,2 % MPa	Rp 1 % MPa	Z %	A %		Agt %	IMPACT STRENGHT ISO-V (J)			HARDNESS HB	FATIGUE TEST	BEND TEST	CROSS SECTIONAL AREA mm ²	Kg / m
								L=50	L=40		20°C	-196°C						
1WVB	1WVB	12,00	20°C	724	551	650	70	43	44					228				
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	Ca	Co			
1WVB	0,0240	0,0300	0,0190	0,4190	1,4450	18,0650	8,0000	0,3580	0,0050	0,0880	0,4360	0,0046	0,2170			
REQUIREMENTS						17,5000	8,0000									
	0,0300	0,0450	0,0300	1,0000	2,0000	19,5000	10,5000			0,1000						

OBSERVATIONS EN10088:3 - 1.4301/1.4307. AISI 304/304L. UNS S30400/S30403.
ASTM A-182. ASTM A-193 Class 1 Grade B8. ASTM A-276 Condition A. ASTM A-479 Condition A. ASME SA-479 Condition A.
No. 1/2016. Stainless steel long products that can be used in metal structures or in composite metal and concrete structures for building construction or civil engineering.

OTHER TEST RESULTS REQUIREMENTS TRD100 TRB100, AD-2000-W2-W10, 2014/68/EU (PED)

HEAT TREATMENT 1.050 °C AND WATERCOOLED | Crack tested acc. to EN10277 table 3 class 3