

ROLDAN, S.A. - Stainless Steels

FACTORY

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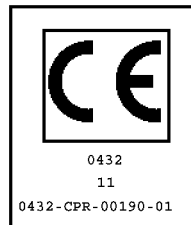
INSPECTION CERTIFICATE EN 10204 3.1



Sistema de
Gestión
ISO 9001:2015

www.tuv.com
ID 0091003143

MADE IN SPAIN - EUROPEAN UNION



EN 10.088:5

CERTIFICATE N°	2021/014601	DATE	23/11/2021	SHEET	1	DELIVERY NOTE N°	2021/002119
GRADE	ACX-216	EN10088:3 (1.4307.)					
CUSTOMER	LEMVIGH MÜLLER AS						
DIMENSIONS	50,00 x	50,00 x	5,00 mm.				
LENGTH	6.000 mm.				TOLERANCE	DIN 1028 EN10056-2	
PRODUCT	[99] Equal angles, hot rolled, annealed, pickled						
REQUIREMENTS	EN10088:3					CUSTOMER ORDER 4500600987	
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		

PRODUCTION PROCESS	TRADE MARK	MARKING	INSPECTOR STAMP	QUALITY INSPECTOR
EAf + AOD +CC	RDN	HEAT NUMBER GRADE (ACX-216)	R3	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 STRENGHT ISO-V (J)			HARDNESS HB	FATIGUE TEST	BEND TEST	CROSS SECTIONAL AREA mm ²	Kg / m
								L=50	L=40									
QHLJ 1EVV 1HEX	QHLJ 1EVV 1HEX		20 °C	676	375	444	54	49	50					211				
			20 °C	677	376	444	54	48	49					211				
			20 °C	677	374	443	54	49	50					211				
REQUIREMENTS		EN ISO 377		500 700	175	210		45						215				

CHEMICAL COMPOSITION %																
CAST	C	P	S	Si	Mn	Cr	Ni	Mo	Ti	N	Cu	Ca	Co			
QHLJ	0,0200	0,0290	0,0010	0,3010	0,9660	18,2450	8,3200	0,4730	0,0030	0,0500	0,4400	0,0009	0,2030			
1EVV	0,0190	0,0290	0,0020	0,3000	1,5300	18,2100	8,0300	0,2180	0,0040	0,0830	0,3420	0,0007	0,1870			
1HEX	0,0160	0,0240	0,0010	0,3690	1,4690	18,1550	8,0250	0,2590	0,0040	0,0830	0,3270	0,0006	0,1260			
REQUIREMENTS	0,0300	0,0450	0,0300	1,0000	2,0000	17,5000 19,5000	8,0000 10,5000			0,1000						

OBSERVATIONS

EN10088:3 - 1.4301/1.4307. AISI 304/304L. UNS S30400/S30403.

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 c oncrete 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

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CERTIFICATE N° 2021/014601 DATE 23/11/2021 SHEET 1 DELIVERY NOTE N° 2021/002119

GRADE ACX-216 EN10088:3 (1.4307.)

CUSTOMER LEMVIGH MÜLLER AS

DIMENSIONS 50,00 x 50,00 x 5,00 mm.

LENGTH 6.000 mm.

TOLERANCE DIN 1028 EN10056-2

PRODUCT [99] Equal angles, hot rolled, annealed, pickled

REQUIREMENTS EN10088:3

CUSTOMER ORDER

TENSILE TEST EN ISO 6892-1

4500600987

ACCORDING TO EN 10272

EDITION AD-2000 W2 AD-2000 W10

INTERGRANULAR CORROSION EN ISO 3651-2 method A: SATISFACTORY

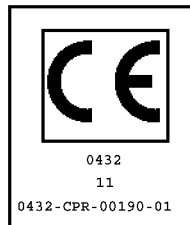
WITHOUT OBJECTIONS

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

PRODUCTION PROCESS

TRADE MARK

MARKING

INSPECTOR STAMP

QUALITY INSPECTOR

JUAN JOSE ALVAREZ RODRIGUEZ

EF + AOD + CC

RDN

HEAT NUMBER

GRADE (ACX-216)

R3

QUALITY CONTROL REPRESENTATIVE

ORDER N°	WORKS N°	MARKS / BOX	HEAT NUMBER	SAMPLE	WEIGHT
MA967 7		93021 / VH33276-	QHLJ		616
967		93022 / VH33277-	QHLJ		616
967		93023 / VH33278-	QHLJ		450
967		93024 / VH33279-	QHLJ		426
967		93028 / VH33301-	QHLJ		591
967		93025 / VH33280-	1EVV		492
967		93026 / VH33281-	1EVV		468
967		93027 / VH33282-	1EVV		421
967		93019 / VH33274-	1HEX		493
967		93020 / VH33275-	1HEX		498