

ROLDAN, S.A. - Stainless Steels

FACTORY

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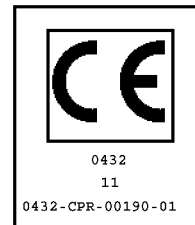
INSPECTION CERTIFICATE EN 10204 3.1



Sistema de
Gestión
ISO 9001:2015

www.tuv.com
ID 0091003143

MADE IN SPAIN - EUROPEAN UNION



EN 10.088:5

CERTIFICATE N° 2021/010647		DATE 18/08/2021	SHEET 1	DELIVERY NOTE N° 2021/001413	
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 4500591288	
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									
OZEJ	OZEJ		20 °C	675	376	445	55	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			
OZEJ	0,0200	0,0320	0,0020	0,3450	1,4680	18,1350	8,0400	0,3010	0,0040	0,0820	0,5660		0,2250			
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.															
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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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PRODUCTION PROCESS EAF + AOD +CC	TRADE MARK RDN	MARKING HEAT NUMBER GRADE (ACX-216)	INSPECTOR STAMP R3	QUALITY INSPECTOR JUAN JOSE ALVAREZ RODRIGUEZ  QUALITY CONTROL REPRESENTATIVE
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ORDER N°	WORKS N°	MARKS / BOX	HEAT NUMBER	SAMPLE	WEIGHT
MA222 3		33015 / VH30059-	OZEJ		604
222		33016 / VH30060-	OZEJ		488
222		33017 / VH30061-	OZEJ		511
222		33018 / VH30062-	OZEJ		418