

F11084
1 1/2" BSP P Hex Full Socket 10K



Reinosa Plant

MILL TEST CERTIFICATE

ISO 9001 - ISO/TS 16949



Product Made in Spain

CUSTOMER: AMODIL SUPPLIES LTD.	WORKS REFERENCE: 1830307
REFERENCE: SD0346	SALES ORDER: 286871-1
PRODUCT NR:	HEAT NUMBER: 900442
	MASTER REFERENCE: 209795
	ROLLED: 21.09.2015

REQUIRED PRODUCT		
1.4401/1.4404/316/316L ROUND BARS TURNED SOLUTION ANNEALED 4" ISO K14 4.000/6.000 mm		
RANDOM		
EXPEDITION	DELIVERY: 0080519638 WEIGHT (KG): 9.954	BUNDLES: 4
		UNITS: 32

MADE ACCORDING TO	
EN 10272 - 2007 ; EN 10088-3 - 2005 ; TRD100 - 01.08.1990 ; DIN 17440 - .09.1996	
EN 10278 - 01.10.1999 ; EN 10222-5 - 01.12.1999 ; ASTM A276/A276M 15 01.01.2015	
ASTM A479-A479M 14 01.05.2014 ; GERDAU GER-EU-02 1 14.09.2012	
AD 2000-MERKBLATT W2 - 02.2008 ; ASTM A182-A182M 14A 01.05.2014	
EN DIRECTIVA 97/23/CE:97 - 29.05.1997 ; NACE MR0175/ISO 15156-1 2ª EDICION 15.10.2009	
NACE MR0175/ISO 15156-3 2ª EDICION 15.10.2009	
AD 2000-MERKBLATT W10 CORR. 05.2013 . . . 2007	
ASME SA182-SA182M SECTION II, PART A - . . . 2013	
ASME SA479-SA479M SECTION II, PART A - . . . 2013 ; EN 10204 :2004 OCT. 2004 3.1	

CHEMICAL ANALYSIS OF HEAT								U: % HEAT NUMBER: 900442
C	Mn	Si	P	S	Cr	Ni	Mo	N
Min.				0,015	16,500	10,000	2,000	
Max.	0,030	2,000	1,000	0,045	0,030	18,000	13,000	2,500 0,1000
Cor.	0,017	1,310	0,516	0,035	0,027	16,700	10,100	2,030 0,0700

INCLUSIONS (MICROINCLUSIONS)	
Standard (ASTM E45 2013 . . . 2013) ; A<3 ; B<3 ; C<3 ; D<3 ; A(t):2 ; A(h):2 ; B(t):1	
B(h):0,5 ; C(t):0 ; C(h):0 ; D(t):1 ; D(h):0,5	

MECHANICAL PROPERTIES AS SUPPLIED (CONDITIONS)	
Temperature of: (1): Solution annealing 1.095 °C ; Cooling: (1): Water	
MECHANICAL PROPERTIES AS SUPPLIED (TEST)	
Specimen Test location: At 1/4 of the diameter	
Tensile test specimen direction (Longitudinal): Longitudinal	
Ts (515/690 MPA): 539 MPA ; Ys(1) (Rp(0,2%) >= 205 MPA): Rp(0,2%) 323 MPA	
Ys(2) ((1%) >= 235 MPA): (1%) 350 MPA ; El. ((5d) >= 45 %): (5d) 47,8 % ; Z (>= 50 %): 77,1 %	
Notch impact sample direction (Longitudinal): Longitudinal ; Notch Impact sample type (ISO V): ISO V	
Notch Impact test Temperature (20 °C): 20 °C ; K(1) (>= 100 J): 278 J ; K(2): 274 J ; K(3): 277 J	
Hardness Standard (EN ISO 6506-1 - . . . 2005) ; Hardness (<= 215 HB): 157 HB	
Tensile test specimen direction (Longitudinal): Longitudinal	
Ts (515/690 MPA): 544 MPA ; Ys(1) (Rp(0,2%) >= 205 MPA): Rp(0,2%) 328 MPA	
Ys(2) ((1%) >= 235 MPA): (1%) 355 MPA ; El. ((5d) >= 45 %): (5d) 47,5 % ; Z (>= 50 %): 76,8 %	
Notch impact sample direction (Longitudinal): Longitudinal ; Notch Impact sample type (ISO V): ISO V	
Notch Impact test Temperature (20 °C): 20 °C ; K(1) (>= 100 J): 275 J ; K(2): 279 J ; K(3): 271 J	
Hardness (<= 215 HB): 158 HB	
Tensile test specimen direction (Longitudinal): Longitudinal	
Ts (515/690 MPA): 537 MPA ; Ys(1) (Rp(0,2%) >= 205 MPA): Rp(0,2%) 321 MPA	
Ys(2) ((1%) >= 235 MPA): (1%) 348 MPA ; El. ((5d) >= 45 %): (5d) 47,9 % ; Z (>= 50 %): 77,3 %	
Notch impact sample direction (Longitudinal): Longitudinal ; Notch Impact sample type (ISO V): ISO V	
Notch Impact test Temperature (20 °C): 20 °C ; K(1) (>= 100 J): 274 J ; K(2): 277 J ; K(3): 271 J	
Hardness (<= 215 HB): 156,5 HB	

TECHNOLOGY & QUALITY CERTIFIES THAT THE PRODUCT FULL FILLS THE ORDER'S REQUIREMENTS			
APPROVED BY: GUILLERMO GUTIERREZ GOMEZ	DATE: 20.10.2015	SIGN:	
REF.: 6001240230000	Page 1 of 2		

FLOW TECHNOLOGY LTD
TEST CERTIFICATE
VERIFIED TRUE
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