



COGNE ACCIAI SPECIALI S.p.a.
 "Soda Unico"
 11100 AOSTA - VIA PARAVERA, 16
 TEL. +39.0165.3021 - FAX +39.0165.302296
 CAP. SOC. 80.000.000 EUR INT. VERS.
 VAT: IT00571320076 C.F. 02187380987
 REG. IMP. AD003 - 7234 REA 50474



800562

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 (A03) DOCUMENT NUMBER 2008023672
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(A06) CUSTOMER : ASA ALLOYS INC.
 (A07) CUSTOMER'S ORDER : PC14444
 (A01) MANUFACTURER'S WORKS : AOSTA, VIA PARAVERA 16 - ITALY
 (A05) PRODUCER OF THE DOC: QUALITY DEPARTMENT
 (A08) MANUFACTURER'S WORKS ORDER NO: 25086980 /80 (A04) MARK OF THE MANUFACTURER : COGNE
 (A09) DISPATCH NOTE : 80492978 /10 (B14) WEIGHT : 5,022.05

SPECIFICATION : CAS-A
 (B01) PRODUCT : 3979 SPE FORGED ROUGHPEELED -1X ROUND BARS HSTD
 (B04) PRODUCT AS-DELIV. CONDIT: RS SOLUTION TREATED
 (B15) PRODUCT DIMENSIONS (INCH)..: 6.250 (B16) LENGTH (INCH)..: 00157 /00236
 (B02) STEEL GRADE TYPE : 316/316L IMCO316L INTERNAL GRADE : F316L 1.4404
 (B08) HEAT NUMBER : 800562 (B07) LOT NUMBER : 467150
 (B06) MARKING OF THE PRODUCT : TEST PIECE N. : 715

THE MATERIAL MEETS THE REQUIREMENTS OF ASTM A182/A182M-05 F316/F316L.
 THE MATERIAL MEETS THE REQUIREMENTS OF ASTM A276-06, A479/A479M-05TP F316 AND F316L
 THE MATERIAL MEETS THE REQUIREMENTS OF NACE MR 01.75 (05)/ISO 15156/NACE MR 01.03
 MATERIAL PRODUCED ACCORDING TO PED 97/23/CE
 THE MATERIAL MEETS THE REQUIREMENTS OF ASTM A484/484M-05
 THE MATERIAL MEETS THE REQUIREMENTS OF ASME SA182/SA182M (05)
 THE MATERIAL MEETS THE REQUIREMENTS OF ASME SA479/SA479M-05, TP 316L
 MATERIAL CORRESPOND TO AMS 5648/02

(C71) CHEMICAL COMPOSITION - LADLE ANALYSIS ACCORDING ASTM E1019-E1086-E415

Ref.	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
020000297031	0.018	0.320	1.840	0.037	0.024	0.084	16.650	2.030	10.100	0.450
ELEMENTS OBTAINED										
ELEMENTS OBTAINED	0.170									

HARDNESS TEST IN AS DELIVERED CONDITION

Ref.	SPECIFICATION	HARDNESS TEST	HB
020000297097	ENISO6506		
OBTAINED	171.0		

TENSILE TEST IN AS DELIVERY CONDITION

Ref.	SPECIFICATION	RM	RP02	Z	AL2
		KSI	KSI	%	%
020000297097	EN 10002				
(C02) DIRECTION OF THE TEST PIECE: L					
MEASUREMENT UNIT					4,0 D
OBTAINED		83.83	40.76	58.70	56.20
		84.56	41.34	58.70	55.70
		85.14	41.77	59.00	54.90
		85.86	42.21	58.70	53.90

THE MATERIAL MEETS THE REQUIREMENTS OF EN10272 (00)

E16595 P10P2



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ULTRASONIC TEST AT 100% : SATISFACTORY
 VISUAL INSPECTION OF SURFACE AND MEASURE OF DIMENSIONS: O.K.
 NO WELDING WITH FILLER METAL OR SPICING HAS BEEN PERFORMED ON THIS PRODUCT
 MATERIAL IS FREE OF MERCURY CONTAMINATION
 100% ANTIMIX-UP TEST CARRIED OUT
 HEAT TREATMENT: SOLUTION TREATED 1050 DEGREES CELSIUS MANTAINED FOR
 MINIMUM PERIOD OF 30 MINUTES FOR INCH AND WATER QUENCHED.
 THE TEST CORROSION IS IN AGREEMENT WITH ASTM A262/02a P.E
 MATERIAL CORRESPOND TO AMS 5653E/02
 MICRO AND MACRO STRUCTURE TESTED: GOOD
 THE MATERIAL MEETS THE REQUIREMENTS OF THE A.M. SPECIFICATION
 THE MATERIAL MEETS THE REQUIREMENTS OF SAE AMS QQS 763/03
 THE MATERIAL MEETS THE REQUIREMENTS OF SS 14 23 48
 THE MATERIAL MEETS THE REQUIREMENTS OF
 2000/53/EC - 2002/95/EC - 2003/11/EC - 2005/618/EC
 STEELMAKING AEF + AOD
 QUALITY SYSTEM CERTIFIED BY I.G.Q ACCORDING TO UNI EN ISO
 9001:2000 - ISO/TS 16949:2002 (THE LAST ONLY FOR HOT ROLLED-PEELED-
 GROUND, STAINLESS STEEL BARS AND ATOMIZED METALLIC POWDERS).

9200

(Z01) DATE 29.04.2008

POLLASTRELLI ANDREA FC (QUALITY CERTIFICATOR) - ELECTRONICALLY GENERATED CERTIFICATE