

870003



COGNE ACCIAI SPECIALIS p.a.  
"5030 URGH"  
11100 AOSTA - VIA PARAVERA 16  
TEL. +39 0165 3021 - FAX +39 0165 302298  
CAP. SOC. 80 000 000 EUR INT. VERS.  
VAI: IT00971320076 C.F. 02187089987  
REG. IMP. A0003 - 7234 REA 50474



INSPECTION CERTIFICATE 3.1 (EN 10204:2004)  
(A03) DOCUMENT NUMBER 2008023667  
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(A06) CUSTOMER : ASA ALLOYS INC.  
(A07) CUSTOMER'S ORDER : PO14444  
(A01) MANUFACTURER'S WORKS : AOSTA, VIA PARAVERA 16 - ITALY  
(A05) PRODUCER OF THE DOC : QUALITY DEPARTMENT  
(A08) MANUFACTURER'S WORKS ORDER NO: 25086980 /40 (A04) MARK OF THE MANUFACTURER : COGNE .  
(A09) DISPATCH NOTE : 80488588 /10 (B14) WEIGHT : 4,307.76

SPECIFICATION : CAS-A  
(B01) PRODUCT : 3977 SPE FORGED ROUGHPEELED -1X ROUND BARS HSTD  
(B04) PRODUCT AS-DELIV. CONDIT: RS SOLUTION TREATED  
(B15) PRODUCT DIMENSIONS (INCH): 5.250 (B16) LENGTH (INCH): 00157 /00236  
(B02) STEEL GRADE TYPE : 316/316L IMCO316L INTERNAL GRADE : F316L 1.4404  
(B08) HEAT NUMBER : 870003 (B07) LOT NUMBER : 465020  
(B06) MARKING OF THE PRODUCT : TEST PIECE N. : 502

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.	020000291901										
ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	
ELEMENTS OBTAINED	0.016	0.400	1.840	0.036	0.029	0.073	16.580	2.010	10.010	0.440	
ELEMENTS OBTAINED	C.140										

HARDNESS TEST IN AS DELIVERED CONDITION

Ref. 020000291259  
SPECIFICATION ENISO6506 HARDNESS TEST HB  
OBTAINED 167.0

TENSILE TEST IN AS DELIVERY CONDITION

Ref. 020000291259  
SPECIFICATION EN 10002 (C02) DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	RM KSI	RP02 KSI	Z %	AT2 %
OBTAINED	81.66	37.13	76.00	61.80
	82.67	37.71	76.00	61.00
	83.40	38.14	75.00	60.50
	83.98	38.44	75.00	60.00

THE MATERIAL MEETS THE REQUIREMENTS OF EN10272 (00)

E16593 P182



COGNE ACCIAI SPECIALI S.p.a.  
 "Socio Unico"  
 11100 AOSTA - VIA PARAVERA 16  
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 CAP. SOC. 50.000.000 EUR INT. VERS.  
 VAT. IT00571320076 C.F. 02167363907  
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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 EAF + AOD + CONTINUOUS CASTING  
 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).

2008

(201) DATE 29.04.2008

POLLASTRELLI ANDREA FC (QUALITY CERTIFICATOR) - ELECTRONICALLY GENERATED CERTIFICATE