

801683

E17425

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COGNE ACCIUSPECIALI S.p.A.  
31100 AOSTA - VIA PARAVERA, 16  
TEL. 0132/413101 - FAX 0132/413102  
C.A.P. 11010 - 31100 AOSTA (TN) - ITALIA  
VIA: 0132/413101/0102/0103/0104/0105/0106/0107/0108/0109/0110/0111/0112/0113/0114/0115/0116/0117/0118/0119/0120/0121/0122/0123/0124/0125/0126/0127/0128/0129/0130/0131/0132/0133/0134/0135/0136/0137/0138/0139/0140/0141/0142/0143/0144/0145/0146/0147/0148/0149/0150/0151/0152/0153/0154/0155/0156/0157/0158/0159/0160/0161/0162/0163/0164/0165/0166/0167/0168/0169/0170/0171/0172/0173/0174/0175/0176/0177/0178/0179/0180/0181/0182/0183/0184/0185/0186/0187/0188/0189/0190/0191/0192/0193/0194/0195/0196/0197/0198/0199/0200



INSPECTION CERTIFICATE 3.1 (EN 10204:2004)  
(A03) DOCUMENT NUMBER 2008067351  
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(A06) CUSTOMER : ASA ALLOYS INC.  
(A07) CUSTOMER'S ORDER :  
(A01) MANUFACTURER'S WORKS : AOSTA, VIA PARAVERA 16 - ITALY  
(A05) PRODUCER OF THE DOC: QUALITY DEPARTMENT  
(A08) MANUFACTURER'S WORKS ORDER NO: (A04) MARK OF THE MANUFACTURER : COGNE  
(A09) DISPATCH NOTE : 80518725 (B14) WEIGHT : 0.00

SPECIFICATION : CAS-A  
(B01) PRODUCT : 22172 IMA FORGED TURNED -1X ROUND BARS BSTD  
(B04) PRODUCT AS-DELIV. CONDIT: RS SOLUTION TREATED  
(B15) PRODUCT DIMENSIONS (INCH): 14.000 (B16) LENGTH (INCH): 00118 /00236  
(B02) STEEL GRADE TYPE : W.N. 1.4401/4404 - 316/316L INTERNAL GRADE : F316L 1.4404  
(B08) HEAT NUMBER : 801683 (B07) LOT NUMBER : 616240  
(B06) MARKING OF THE PRODUCT : TEST PIECE N. : 624

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 ASTM A193/A193M-06 B6M.  
MATERIAL PRODUCED ACCORDING TO PHD 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. 020000311650

ELEMENTS	C	Si	Mn	P	S	N	Cr	Mo	Ni
OBTAINED	0.016	0.400	1.760	0.030	0.026	0.085	16.670	2.000	10.060

HARDNESS TEST IN AS DELIVERED CONDITION  
Ref. 020000311920  
SPECIFICATION EN1806506 HARDNESS TEST HB  
OBTAINED 162.0

TENSILE TEST IN AS DELIVERY CONDITION  
Ref. 020000311920  
SPECIFICATION EN 10002 (C02) DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	RM KSI	RP02 KSI	Z %	AL2 %
OBTAINED	79.34	44.38	61.60	4.0 D 58.80

GRAIN SIZE  
Ref. 020000311920  
SPECIFICATION ASTM E112 --  
OBTAINED 0

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COGNAC SPECIALI S.p.A.  
11100 ASTA - VIA PARAVENA 16  
TEL. 0172/452501 - FAX 0172/452528  
C.P. 204 - 11100 ASTA (CN) - ITALIA  
P.I. 0172/452528 - P.A. 0172/452527  
TELE. INT. 4033 - 729 - R.F.A. 5074



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THE MATERIAL MEETS THE REQUIREMENTS OF SS 14 23 48  
STEELMAKING REF + A00  
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 MAINTAINED FOR  
MINIMUM PERIOD OF 30 MINUTES FOR INCH AND WATER QUENCHED.  
CORROSION TEST ACCORDING TO ASTM A262/02a Practice.E. EN ISO 3651: SATISFACTORY  
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 NACE MR 01.75 (05)/ISO 15156/NACE MR 01.03  
THE MATERIAL MEETS THE REQUIREMENTS OF  
2000/53/EC - 2002/95/EC - 2003/11/EC - 2005/618/EC  
QUALITY SYSTEM CERTIFIED BY I.G.O ACCORDING TO UNI EN ISO  
9001:2000 - ISO/TS 16949:2002 (THE LAST ONLY FOR HOT ROLLED-PEELBD-  
GROUND, STAINLESS STEEL BARS AND ATOMIZED METALLIC POWDERS).

(201) DATE 27.10.2008

POLLASTRELLI ANDREA FC (QUALITY CERTIFICATOR) - ELECTRONICALLY GENERATED CERTIFICATE