



COGNE ACCIAI SPECIALI S.p.a.
 "Socio 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. 02187360967
 REG. IMP. AO003 - 7234 REA 50474



801129

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 (A03) DOCUMENT NUMBER 2008067377
 PAGE 1/2

(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: 25089277 /70 (A04) MARK OF THE MANUFACTURER : COGNE

SPECIFICATION : CAS-A
 (B01) PRODUCT : 2300 SPE FORGED ROUGHPEELED -1X ROUND BARS HSTD
 (B04) PRODUCT AS-DELIV. CONDIT: RS SOLUTION TREATED
 (B11) PRODUCT DIMENSIONS (MM)..: 215,900
 (B02) STEEL GRADE TYPE : 316/316L IMCO316L (B12) LENGTH (MM)..: 04000 /06000
 (B08) HEAT NUMBER : 801129 INTERNAL GRADE : F316L 1.4404
 (B06) MARKING OF THE PRODUCT : (B07) LOT NUMBER : 697500
 TEST PIECE N. : 750

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 B8M.
 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. 020000304408

ELEMENTS	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
BTAINED	0,019	0,350	1,800	0,030	0,028	0,073	16,780	2,050	10,240	0,360
LEMENTS	Co									
BTAINED	0,090									

ADDRESS TEST IN AS DELIVERED CONDITION
 ref. 020000304745
 SPECIFICATION ENISO6506 HARDNESS TEST HB
 BTAINED 169,0

ENSILE TEST IN AS DELIVERY CONDITION
 ref. 020000304745
 SPECIFICATION EN 10002 (C02) DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	RM KSI	RP02 KSI	AL2 %
BTAINED	82,67	48,59	4,0 D
	83,40	49,17	54,30
	83,98	49,89	53,60
	84,56	50,18	52,80
			52,40



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PAGE 2/2

GRAIN SIZE
Ref.
SPECIFICATION
OBTAINED

020000304745
0 ASTME112 --

THE MATERIAL MEETS THE REQUIREMENTS OF EN10272 (00)
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.
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
CONFORMITA' ALLA NORMA NACE MR 01.75(05)/ISO 15156/NACE MR 01.03
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).