



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. 02187360967
 REG. IMP. A0003 - 7234 REA 50474



200825

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 (A03) DOCUMENT NUMBER 2008044279
 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: 25086980 /170 (A04) MARK OF THE MANUFACTURER : **COGNE**

SPECIFICATION : CAS-A
 (B01) PRODUCT : 10056 SPE FORGED ROUGHPEELED -1X ROUND BARS HSTD
 (B04) PRODUCT AS-DELIV. CONDIT: RS SOLUTION TREATED
 (B11) PRODUCT DIMENSIONS (MM):. 228,600 (B12) LENGTH (MM):. 04000 /06000
 (B02) STEEL GRADE TYPE :. 316/316L IMCO316L INTERNAL GRADE : F316L 1.4404
 (B08) HEAT NUMBER : 800825 (B07) LOT NUMBER :. 358600
 (B06) MARKING OF THE PRODUCT :. TEST PIECE N. : 860

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.	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
020000299401	0,021	0,350	1,810	0,038	0,028	0,081	16,630	2,010	10,070	0,360
ELEMENTS OBTAINED										
ELEMENTS OBTAINED	Co									
	0,140									

HARDNESS TEST IN AS DELIVERED CONDITION

Ref. 020000300485
 SPECIFICATION ENISO6506 HARDNESS TEST HB
 OBTAINED 163,0

TENSILE TEST IN AS DELIVERY CONDITION

Ref. 020000300485 (C02) DIRECTION OF THE TEST PIECE: T
 SPECIFICATION EN 10002

MEASUREMENT UNIT	RM KSI	RP02 KSI	Z %	AL2 %
OBTAINED	79,77	46,70	66,30	59,90
	80,64	48,30	66,30	57,60
	81,51	49,31	66,30	54,60
	84,27	51,05	66,30	53,30



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 PAGE 2/2

GRAIN SIZE
 Ref. 020000300485
 SPECIFICATION ASTME112 --
 OBTAINED 0

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
 THE MATERIAL MEETS THE REQUIREMENTS OF NACE MR 01.75 (05)/ISO 15156/NACE MR 01.03
 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
 HEAT TREATMENT: SOLUTION TREATED 1050 DEGREES CELSIUS MAINTAINED FOR
 MINIMUM PERIOD OF 60 MINUTES FOR INCH FOR A TOTAL TIME OF 9H AND WATER QUENCHED
 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).