



COGNE ACCIAI SPECIALI S.p.A.

11100 AOSTA - VIA PARAVERA 16
TEL +39.0165.3021 - FAX +39.0165.302205
CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 02187360967
VAT: IT00571320076 - R.E.A. n. AO-50474

Company with management systems ISO
approved and certified according to ISO 9001,
ISO 75 16049 e ISO 14001.

C/23468

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
(A03) DOCUMENT NUMBER 2014058516
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(A06) CUSTOMER : COGNE SPECIALTY STEEL USA, INC
(A07) CUSTOMER'S ORDER : ASA P033724
(A01) MANUFACTURER'S WORKS : AOSTA, VIA PARAVERA 16 - ITALY
(A05) PRODUCER OF THE DOC: QUALITY DEPARTMENT
(A08) MANUFACTURER'S WORKS ORDER NO: 25184819 /160 (A04) MARK OF THE MANUFACTURER : COGNE
(A09) DISPATCH NOTE : 80942074 /10 (B14) WEIGHT . . : 2,574.96
THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
INTERNAL SPEC. : AMSQSQS763_API6A
(B01) PRODUCT : 51118 SPE ROUGHPEELED ROUND BARS TOLERANCE : + 0,0591 - 0
(B03) SURFACE FINISH : RS SOLUTION ANNEALED
(B04) PRODUCT DELIVERY CONDITION: 6.250 (B10) LENGTH (inch) 00240 /00288
(B09) PRODUCT DIMENSIONS (Inch): AISI 316/316L - UNS31600/31603 INTERNAL GRADE : F316L IMCO
(B02) GRADE : 401668 (B07) IDENTIFICATION LOT NO.: 564860
(B07) IDENTIFICATION HEAT NO: 316L TEST PIECE N. : 486
(B06) MARKING OF THE PRODUCT .:

REFERENCE NORMS: ASTM A276, ASTM A479, ASTM A484, ASTMA193B8MCL1, ASME SA276, ASME SA479, ASME SA484, ASME SA193B8MCL1, AMS-QQS-763(replacing FEDQQS763 on 7/1/98), AMS 5653F, AMS 5648K, NACE MR0175/ISO15156-3, NACE MR0103, NORSOK MDSS01Rev3, EN 10272.

REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTMA182/ASME SA182, ASTM A314, EN 10222-5. AISI 316/316L UNS S31600/S31603, EN 1.4401/1.4404.

SOLUTION TREATED AT 1050°C / 1 min x mm / WATER.

STEELMAKING AEF + AOD

QTC ON PROLONGATION OF BARS TESTS AT MID RADIUS (CENTER POS. FOR SIZES <2 INCHES).

HOT ROLLED

REDUCTION RATIO 12.0
INITIAL STATUS 0.0

(C71) CHEM. COMP. - LADLE ANALYSIS ACCORDING ASTM E1019-A751-E1086-E415-A580

Control lot No. - Weight	:020000555242	-	95,900	KG									
ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu			
ELEMENTS OBTAINED	0.028	0.36	1.77	0.027	0.025	0.074	17.05	2.08	10.20	0.30			
ELEMENTS OBTAINED	Co												
ELEMENTS OBTAINED	0.18												

HARDNESS TEST IN AS DELIVERED CONDITION

Control lot No. - Weight	:020000555432	-	5,766	KG							
SPECIFICATION OBTAINED	166	ASTMA370-E10	HARDNESS TEST	HB	TESTING METHOD	: 10/3000					

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight	:020000555432	-	5,766	KG							
SPECIFICATION OBTAINED	248	EN ISO 148-1-KV2	IMPACT TEST	KV	(C02) DIRECTION OF THE TEST PIECE:	L					
(C40) TYPE OF TEST PIECE				20							
(C03) TEST TEMPERATURE °C											
MEASUREMENT UNIT OBTAINED	248	J	239	232							

C123468



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GRAIN SIZE
Control lot No. - Weight :020000555432 - 5,766 KG
SPECIFICATION ASTME112 --
OBTAINED 4 6

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ.ITT COMPLYING WITH API6A.
CORROSION TEST ACCORDING TO ASTM A262 Practice E EN ISO 3651-2: SATISFACTORY.
SURFACE CONTROL BY VISUAL INSPECTION: CONFORMING.
DIMENSIONAL CONTROL ACCORDING TO ASTM A484: CONFORMING.
ULTRASONIC TEST ACCORDING TO EN 10308 Class.3, equivalent to
ASTM A388 FBH5 (for sizez <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.
ANTIMIX TEST: SATISFACTORY.

TENSILE TEST
Control lot No. - Weight :020000555432 - 5,766 KG
SPECIFICATION ASTMA370-E8-0.5"SPEC (C02) DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm B KSI	Rp02_B KSI	Z B %	A12 B %
OBTAINED	81	39	81.5	4,0 D 67.9

NO WELDING REPAIR ON THE MATERIAL
MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.
THE PRODUCT SATISFIES CE DIRECTIVES: 2011/65 - 2000/53 2002/95 (RoHS) 2003/11 - 2005/618 AND PED 97/23/EC.
THE MATERIAL IS FREE OF ANY MERCURY, MERCURY COMPOUNDS AND OR RADIUM CONTAMINATION AT TIME OF SHIPMENT AND WAS PRODUCED WITHOUT
USING OZONE DEPLETING SUBSTANCES OF CLASS I AND II.
QUALITY SYSTEM CERTIFIED BY I.G.Q ACCORDING TO UNI EN ISO
9001:2008 - ISO/TS 16949:2009 (THE LAST ONE ONLY FOR HOT ROLLED-PEELED-GROUND, STAINLESS STEEL BARS AND ATOMIZED METALLIC POWDERS).
ALL THE NORMS MENTIONED ARE INTENDED IN THEIR LATEST REVISION AT THE DATE OF ISSUE OF THIS DOCUMENT.
COUNTRY OF ORIGIN: ITALY, THE MATERIAL COMPLIES WITH FAR DFARS
252.225-7009 ALT 1.
THE ABOVE ARE TRUE AND CORRECT RESULTS OF TESTS ON SAMPLES OF THE MATERIAL. RESULTS ARE CONFORM TO THE SPECIFICATION(S) APPLICABLE
AND ARE RECORDED.
THE RECORDING OF FALSE, FICTIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER U.S.
FEDERAL STATUTES.
SOLUTION TREATED AT 1050°C +-15°C / 1 min x mm / WATER.