



COGNE ACCIAI SPECIALI S.p.a.

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CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 02187350967
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Company with management systems ISO
approved and certified according to ISO 9001,
ISO/TS 16949 e ISO 14001.

C175985

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2017004037
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CUSTOMER: COGNE SPECIALTY STEEL USA, INC
 CUSTOMER'S ORDER: P039482
 MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
 PRODUCER OF THE DOC: QUALITY DEPARTMENT
 MANUFACTURER'S WORKS: ORDER NO: 25215686 /40 MARK OF THE MANUFACTURER: COGNE
 DISPATCH NOTE: 81100706 /10 WEIGHT: 6,402.12
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 INTERNAL SPEC: AMSQQS763 API6A
 PRODUCT: 51123 SPE ROUGHPEELED ROUND BARS TOLERANCE: + 0,0985 - 0
 SURFACE FINISH: 1X Hot Finished
 PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 PRODUCT DIMENSIONS (Inch): 11.000 LENGTH (inch) 00240 /00288
 GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: F316L IMCO
 IDENTIFICATION HEAT NO: 602359 IDENTIFICATION LOT NO: 894220
 MARKING OF THE PRODUCT: 316L TEST PIECE N: 422

REFERENCE NORMS: ASTM A276/276M(16), ASTM A479/A479M(16), ASTM A484/A484M(16), ASTM A193/A193M(16) B8MCL1, ASME SA276(15), ASME SA479(15), ASME SA484(15), ASME SA193(15) B8MCL1, AMS5653H, AMS5648L, AMS-QS-763D2015, NACE MR0175/ISO15156-3(15), NACE MR0103 2015, NORSOK M630 MDS S01 Rev5, EN 10272(07).

REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182/A182M(15)/ASME SA182(15), ASTM A314/A314M(15)/ASME SA320(15), ASTM A320/A320M(15A)/ASME SA320 (15) B8MCL1, EN 10222-5(2000).

AISI 316/316L UNS S31600/S31603, EN 1.4401/1.4404.

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

STEELMAKING EAF + AOD

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

HOT FORGED

REDUCTION RATIO 5.4
INITIAL STATUS 0.0

CHEM. COMP. (%W/W) - LADLE ANALYSIS ACCORDING TO ASTM E1019-A751-E1086-E415-A580

Control lot No. - Weight	:020000663054	-	92,770	KG									
ELEMENTS			C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	
OBTAINED			0.014	0.37	1.82	0.028	0.021	0.080	16.78	2.05	10.28	0.38	
ELEMENTS			Co										
OBTAINED			0.13										

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight	:020000663632	-	3,617	KG	
SPECIFICATION			ASTMA370-E10	HARDNESS TEST	HB TESTING METHOD: 10/3000
OBTAINED			173		

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight	:020000663632	-	3,617	KG	
SPECIFICATION			EN ISO 148-1-KV2		DIRECTION OF THE TEST PIECE: T
TYPE OF TEST PIECE			KV		
TEST TEMPERATURE °C			196-		
MEASUREMENT UNIT			J		
OBTAINED			91	118	112



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 ISO 15000 & ISO 14001.

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GRAIN SIZE Control lot No. - Weight : 020000663632 - 3,617 KG
 SPECIFICATION 1 2 ASTM E112 --

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ. ITT COMPLYING WITH API 6A Annex M.
 CORROSION TEST ACCORDING TO ASTM A262 Practice E EN ISO 3651-2 (NO SIGNS OF FISSURES OR CRACKS AT 20X MAGNIFICATION): 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 sizes <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.
 ANTIMIX TEST: SATISFACTORY.
 TENSILE TEST

Control lot No. - Weight : 020000663632 -	ASTMA370-EB-0.5" SPEC	3,617 KG	DIRECTION OF THE TEST PIECE: T	
MEASUREMENT UNIT	Rm B	Rp0.2 B	Z B	A12 B
OBTAINED	KSI	KSI	%	%
	85	45	54.8	4,0 D
				51.6

NO WELDING REPAIR ON THE MATERIAL.
 MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.
 THE PRODUCT SATISFIES CE DIRECTIVES: 2011/65 (ROHS2) - 2000/53 - 2002/95(ROHS) - 2003/11 - 2005/618 AND PED 2014/68/EU.
 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.
 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.

DATE 30.01.2017

MORABITO ROSA CE (QUALITY CERTIFICATOR) - ELECTRONICALLY GENERATED CERTIFICATE

-Cogne

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