



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 11100 AOSTA - VIA PARAVERA, 16  
TEL +39.0165.3021 - FAX +39.0165.302296  
CAP. SOC. 115.000.000 EUR INT. VERS.  
C.F. 02187360967  
VAT: IT00571320076 - R.E.A. n. AO-50474

Company with Management Systems certified  
according to ISO 9001, IATF 16949, EN 9100 and  
ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)  
DOCUMENT NUMBER 2018046409  
PAGE 1/2

CUSTOMER: COGNE SPECIALTY STEEL USA, INC  
CUSTOMER'S ORDER: P043717  
MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY  
PRODUCER OF THE DOC: QUALITY DEPARTMENT  
MANUFACTURER'S WORKS ORDER NO: 25238951 /10 MARK OF THE MANUFACTURER: **COGNE**  
DISPATCH NOTE: 81228716 /10 WEIGHT: 7418 LB

THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER

INTERNAL SPEC: AMSQSS763 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: 801239 IDENTIFICATION LOT NO: 917670  
MARKING OF THE PRODUCT: 316L TEST PIECE N: 767

REFERENCE NORMS: ASTM A276/276M(17), ASTM A479/A479M(18), ASTM A484/A484M(18), ASTM A193/A193M(17) B8MCL1, ASME SA276(15), ASME SA479(15), ASME SA484(15), ASME SA193(15) B8MCL1, AMS5653H, AMS5648M, AMS-QQS-763D2015, NACE MR0175/ISO15156-3(15), NACE MR0103 2015, NORSOK M630 MDS S01 Rev5, EN 10272(16).

REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182/A182M(18)/ASME SA182(15), ASTM A314/A314M(15)/ASME SA314(15), ASTM A320/A320M(18)/ASME SA320 (15)B8MCL1, EN 10222-5(2017).

AISI 316/316L UNS S31600/S31603, EN 1.4401/1.4404.  
SOLUTION TREATED AT 1050°C / 1 min x mm / WATER.  
STEELMAKING EAF + AOD  
MACROSTRUCTURE CONFORMING TO THE SPEC. ASTM E340.  
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 :020000746706 - 81,793 KG

ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
OBTAINED	0.015	0.36	1.75	0.025	0.026	0.077	16.76	2.05	10.05	0.39
ELEMENTS OBTAINED	Co									
OBTAINED	0.20									

HARDNESS TEST IN AS DELIVERY CONDITION  
Control lot No. - Weight :020000746845 - 3,752 KG  
SPECIFICATION ASTM A370-E10 HARDNESS TEST HB TESTING METHOD: 10/3000  
OBTAINED 157

IMPACT TEST IN AS DELIVERY CONDITION  
Control lot No. - Weight :020000746845 - 3,752 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 110 108 98

P.O. # 5852 Part # 08-FOE-80 Desc: 8" CPA 50E S-80 316 S/S

ANS



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 11100 AOSTA - VIA PARAVERA, 16  
TEL +39.0165.3021 - FAX +39.0165.302295  
CAP. SOC. 115.000.000 EUR INT. VERS.  
C.F. 02187360967  
VAT: IT00571320075 - R.E.A. n. AO-50474

Company with Management Systems certified  
according to ISO 9001, IATF 16949, EN 9100 and  
ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)  
DOCUMENT NUMBER 2018046409  
PAGE 2/2

TENSILE TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000746845 - 3,752 KG  
SPECIFICATION EN-ISO6892-1

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm MPA	Rp02% MPA	A %	Z %	Rp1% MPA
OBTAINED	522	262	5.0 D 64.4	66.4	292

GRAIN SIZE

Control lot No. - Weight :020000746845 - 3,752 KG  
SPECIFICATION ASTME112 --

OBTAINED 4 6

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

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ.ITT COMPLYING WITH API6A Annex M.

TENSILE TEST

Control lot No. - Weight :020000746845 - 3,752 KG  
SPECIFICATION ASTM A370-E8-0.5" SPEC

DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	UTS KSI	YS KSI	RA %	EL %
OBTAINED	77	39	65.0	4,0 D 73.0

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 size <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.

ANTIMIX TEST: SATISFACTORY.

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.

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.

ALL THE NORMS MENTIONED ARE INTENDED IN THEIR LAST REVISION AT THE DATE OF ISSUE OF THIS DOCUMENT.

COUNTRY OF ORIGIN: ITALY, THE MATERIAL COMPLIES WITH FAR DFARS

252.225-7009 ALT 1.

P.O. # 5852 Part # 08-FOE-80 Desc: 8" CPA 50E S-80 316 S/S