



COGNE ACCIAI SPECIALI S.p.A.
 11100 AOSTA - VIA PARAVERA 15
 TEL. +39 0165 3021 - FAX. +39 0165 302295
 C.A.P. 11100 AOSTA - C.F. 016530000
 C.F. 016530000
 V.I. 1100371520076 - R.E.A. n. AO 50474

Company with management systems ISO 9001
 approved and certified according to ISO 9001.
 ISO 15194 & ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 (A03) DOCUMENT NUMBER 2014006864
 PAGE 1/2

472026 - 3.0 in

C102302

(A06) CUSTOMER : COGNE SPECIALTY STEEL USA, INC
 (A07) CUSTOMER'S ORDER : ASA P031963
 (A01) MANUFACTURER'S WORKS : AOSTA, VIA PARAVERA 16 - ITALY
 (A05) PRODUCER OF THE DOC: QUALITY DEPARTMENT
 (A08) MANUFACTURER'S WORKS ORDER NO: 25175019 /30 (A04) MARK OF THE MANUFACTURER : COGNE
 (A09) DISPATCH NOTE : 80874977 /10 (B14) WEIGHT : 10,379.19
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 INTERNAL SPEC. : AMS005763 APT6A
 (B01) PRODUCT : 51112 P.E.L. PEELLED ROUND BARS TOLERANCE : + 0,002364 - 0,002364
 (B03) SURFACE FINISH : 2B Cold Finished
 (B04) PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 (B09) PRODUCT DIMENSIONS (Inch): 3.000
 (B02) GRADE : A151316/316L UNSG31600/S31603
 (B07) IDENTIFICATION HEAT NO: 472026
 (B06) MARKING OF THE PRODUCT : A151316/316L UNSG31600/S31603
 (B10) LENGTH (Inch) : 00240 /00264
 (B07) IDENTIFICATION LOT NO.: F316L IMCO
 TEST PIECE N.: 2251110
 511

REFERENCE NORMS: ASTM A276(08), ASTM A479(08), ASTM A484(08), ASTM A193(09) B8MCL1, ASME SA276(10), ASME SA479(10), ASME SA484(10), ASME SA193(10) B8MCL1, AMS-905-763B(replacing FEDQ05763 on 7/1/98), AMS 5653F, AMS 5648K, NACE MR0175/ISO15156-3(09), NACE MR0103(07), NORSOK M5501Rev3.
 REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182(10)/ASME SA182(10), ASTM A314(08).
 SOLUTION TREATED AT 1050°C / 1 min x mm / WATER.
 STEELMAKING AEF + AOD + CONTINUOUS CASTING
 QTC ON PROLONGATION OF BARS TESTS AT MID RADIIUS (CENTER POS. FOR SIZES <2 INCHES).
 HOT ROLLED
 REDUCTION RATIO 5.2
 INITIAL STATUS 0.0

(C11) CHEM. COMP. - IADLE ANALYSIS ACCORDING ASTM E1019-A751-B1086-E415-A580
 Control lot No. - Weight : 020000524991
 ELEMENTS OBTAINED

C	0.020	Si	0.38	Mn	1.83	P	0.036	S	0.023	N	0.075	Cr	16.63	Mo	2.08	Ni	10.09	Cu	0.33
Co	0.12																		

 ELEMENTS OBTAINED
 HARDNESS TEST IN AS DELIVERED CONDITION
 Control lot No. - Weight : 020000525371
 SPECIFICATION
 181
 ASTMA370-E10 5,187 KG
 HARDNESS TEST HB TESTING METHOD : 10/3000
 OBTAINED

GRAIN SIZE
 Control lot No. - Weight : 020000525371
 SPECIFICATION
 5 5,187 KG
 OBTAINED
 7 ASTM E112 --

EDDY CURRENT INSPECTION OF SURFACE ACCORDING TO EN 10277-1 Class.4: SATISFACTORY.
 CORROSION TEST ACCORDING TO ASTM A262 Practice E EN ISO 3651-2: SATISFACTORY.



COGNE ACCIAI SPECIALI S.p.a.
 11100 AOSTA - VIA PARAVERA, 16
 TEL. +39 0165 3021 - FAX +39 0165 302298
 CAP. SOC. 143.550.000 EUR INT. VENS.
 C.F. 02187360967
 VAT: 1100571352076 - REA n. AO-50474

Company with management systems ISO
 approved and certified according to ISO 9001,
 ISO/TS 16949 e ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 (A03) DOCUMENT NUMBER 2014006964
 PAGE 2/2

C/102302

TENSILE TEST
 Control lot No. - Weight : 020000525371 - 5,187 KG
 SPECIFICATION : ASTM A370-E8-E8-0.5" SPEC

MEASUREMENT UNIT	Rm B KSI	Kp02_B KSI	Z B %	AI2 B %
OBTAINED	88	44	74.5	4.0 D 63.0

DIMENSIONAL CONTROL ACCORDING TO EN 10278 AND ASTM A484: SATISFACTORY.
 NO WELDING REPAIR ON THE MATERIAL.
 ULTRASONIC TEST ACCORDING TO EN 10308 CLASS 3, EQUIVALENT TO SFP 1920 GROUP 3 CLASS C (CLASS B FOR SIZES > 75 MM) AND ASTM A388 FBR
 5 (ONLY FOR SIZES > 100 MM): SATISFACTORY
 100% ANTIMIX TEST CARRIED OUT.
 HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ, ITT COMPLYING WITH API6A.
 QTC OBTAINED ON PROLONGATION OF BARS ACCORDING TO THE RULES OF EN10088-3 AND API6A.
 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 PRODUCT SATISFIES CE DIRECTIVES: 2011/65 - 2000/53 2002/95 (RoHS) 2003/11 - 2005/618
 MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.
 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 252.225-7014 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, FICTITIOUS 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.