



COGNE ACCIAI SPECIALI S.p.A.
 11100 AOSTA - VIA PARAVERA, 16
 TEL. 011 85201 - FAX 011 852028
 C.F. 02187300989 - 1000 EUR INT. VERS.
 V.I.F. 0100571320078 - R.E.A. 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 2014066247
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C/22417

(A06) CUSTOMER'S ORDER : 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 / 70 (A04) MARK OF THE MANUFACTURER : COGNE
 (A09) DISPATCH NOTE : 80936989 / 10 (B14) WEIGHT . . . : 7,314.81
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 INTERNAL SPEC. : AMSQ05763-AP16A
 (B01) PRODUCT : 5113 PEL PEELED ROUND BARS TOLERANCE : + 0 - 0,005516
 (B03) SURFACE FINISH : RS SOLUTION ANNEALED
 (B04) PRODUCT DELIVERY CONDITION: 3.750
 (B09) PRODUCT DIMENSIONS (Inch): A1S1316/316L UNSS31600/S31603 INTERNAL GRADE : (B10) LENGTH (inch) 00240 / 00264
 (B07) GRADE : 473187 A1S1316/316L UNSS31600/S31603 INTERNAL GRADE : (B07) IDENTIFICATION LOT NO.: F316L IMCO
 (B06) IDENTIFICATION HEAT NO: TEST PIECE N. : 558780
 MARKING OF THE PRODUCT : 878

REFERENCE NORMS: ASTM A276, ASTM A479, ASTM A484, ASTMA193B8MCL1, ASME SA276, ASME SA479, ASME SA484, ASME
 SA193B8MCL1, AMS-Q05-763 (replacing FEDQ05763 on 7/1/98), AMS
 5653F, AMS 5648K, NACE MR0175/ISO15156-3, NACE MR0103, NORSOK
 MDS01Rev3, EN 10272.
 REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTMA182/ASME SA182, ASTM A314, EN 10222-5.
 A1S1 316/316L UNS S31600/S31603, EN 1.4401/1.4404.
 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 3.3
 INITIAL STATUS 0.0

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

Control lot No. - Weight : 020000563868																				
ELEMENTS OBTAINED	C	0.015	S1	0.33	Mn	1.73	P	0.033	S	0.025	N	0.078	Cr	16.70	Mo	2.03	Ni	10.16	Cu	0.39
ELEMENTS OBTAINED	Co	0.22																		

HARDNESS TEST IN AS DELIVERED CONDITION
 Control lot No. - Weight : 020000564028
 SPECIFICATION 178
 ASTMA370-E10 4,616 KG
 HARDNESS TEST HB TESTING METHOD : 10/3000

IMPACT TEST IN AS DELIVERY CONDITION
 Control lot No. - Weight : 020000564028
 SPECIFICATION (C40) TYPE OF TEST PIECE EN ISO 148-1-KV2 4,616 KG
 (C03) TEST TEMPERATURE °C 20
 MEASUREMENT UNIT J
 OBTAINED 258 263 270
 (C02) DIRECTION OF THE TEST PIECE: L



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GRAIN SIZE
 Control lot No. - Weight : 020000564028 -
 SPECIFICATION 4 6 ASTME112 -- 4,616 KG
 OBTAINED

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.
 TENSILE TEST
 Control lot No. - Weight : 020000564028 -
 SPECIFICATION ASTMA370-E8-0.5" SPEC 4,616 KG
 (C02) DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm B KSI	Rp0.2 B KSI	Z B %	A12 B %
OBTAINED	87	40	74.8	4.0 D 53.6

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 SEP 1920 GROUP 3 CLASS C (CLASS B FOR SIZES > 75 MM) AND ASTM A388 FBH
 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 AND PED 97/23/EC.
 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
 252.225-7009 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. 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.