

C 122434



COGNE ACCIAI SPECIALI S.p.a.

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CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 02187360987
VAT: IT00571320076 - 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 2014069290
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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 /40 (A04) MARK OF THE MANUFACTURER : COGNE
(A09) DISPATCH NOTE : 80938919 /10 (B14) WEIGHT . . : 7,222.22

THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
INTERNAL SPEC. : AMSQOS763_API6A
(B01) PRODUCT : 51112 PEL PEELED 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 (B10) LENGTH (inch) 00240 /00264
(B02) GRADE : AISI316/316L UNS31600/S31603 INTERNAL GRADE : F316L IMCO
(B07) IDENTIFICATION HEAT NO: 473187 (B07) IDENTIFICATION LOT NO.: 558710
(B06) MARKING OF THE PRODUCT : TEST PIECE N. : 871

REFERENCE NORMS: ASTM A276, ASTM A479, ASTM A484, ASTM A193BBMCL1, ASME SA276, ASME SA479, ASME SA484, ASME SA193BBMCL1, 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: ASTM A182/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 + CONTINUOUS CASTING
QTC ON PROLONGATION OF BARS TESTS AT MID RADIUS (CENTER POS. FOR SIZES <2 INCHES).
HOT ROLLED

REDUCTION RATIO 5.2
INITIAL STATUS 0.0

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

Control lot No. - Weight	:020000563868 - 77,329 KG										
ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	
ELEMENTS OBTAINED	0.015	0.33	1.73	0.033	0.025	0.078	16.70	2.03	10.16	0.39	
ELEMENTS OBTAINED	Co										
	0.22										

HARDNESS TEST IN AS DELIVERED CONDITION

Control lot No. - Weight :020000564019 - 3,814 KG
SPECIFICATION OBTAINED 178 ASTM A370-E10 HARDNESS TEST HB TESTING METHOD : 10/3000

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000564019 - 3,814 KG
SPECIFICATION OBTAINED 278 EN ISO 148-1-KV2 (C02) DIRECTION OF THE TEST PIECE: L
(C40) TYPE OF TEST PIECE KV
(C03) TEST TEMPERATURE °C 20
MEASUREMENT UNIT J
OBTAINED 275 277

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INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
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GRAIN SIZE
Control lot No. - Weight :020000564019 - 3,814 KG
SPECIFICATION ASTME112 --
OBTAINED 5 7

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 :020000564019 - 3,814 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	88	41	74.8	4,0 D 55.2

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.
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.