



COGNE ACCIAI SPECIALI S.p.a.

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CAP. 800, 100.000.000 EUR INT. VERB.
G.F. 02187390987
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 2014009650
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(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 /60 (A04) MARK OF THE MANUFACTURER : COGNE
 (A09) DISPATCH NOTE : 80881576 /10 (B14) WEIGHT : 7,248.68
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 INTERNAL SPEC. : AMSQOS763_API6A
 (B01) PRODUCT : 51113 PEL PEELED ROUND BARS TOLERANCE : + 0 - 0,005516
 (B03) SURFACE FINISH :
 (B04) PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 (B09) PRODUCT DIMENSIONS (Inch): 3,750 (B10) LENGTH (inch) 00240 /00264
 (B02) GRADE : AISI316/316L UNS31600/S31603 INTERNAL GRADE : F316L IMCO
 (B07) IDENTIFICATION HEAT NO: 472642 (B07) IDENTIFICATION LOT NO.: 225140
 (B06) MARKING OF THE PRODUCT : TEST PIECE N. : 514

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-QQS-763B(replacing FEDQQS763 on 7/1/98), AMS 5653F, AMS 5648R, NACE MR0175/ISO15156-3(09), NACE MR0103(07), NORSOK MDSS01Rev3.

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 RADIUS (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 :020000525637 -

ELEMENTS	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
OBTAINED	0.025	0.36	1.80	0.034	0.026	0.072	16.55	2.05	10.08	0.33
ELEMENTS	Co									
OBTAINED	0.13									

HARDNESS TEST IN AS DELIVERED CONDITION

Control lot No. - Weight :020000525810 -

SPECIFICATION 172 ASTMA370-E10 HARDNESS TEST HB TESTING METHOD : 10/3000

GRAIN SIZE

Control lot No. - Weight :020000525810 -

SPECIFICATION 4 6 ASTME112 --

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.



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TENSILE TEST

Control lot No. - Weight :020000525810 - 4,844 KG
SPECIFICATION ASTMA370-E8-0.5"SPEC

(CO2) DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm B KSI	Rp02_B KSI	Z B %	A12 B %
OBTAINED	84	35	72.6	4,0 D 60.6

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

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, 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.