

C186177

HT# 772424



COGNE ACCIAI SPECIALI S.p.a.

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TEL +39.0165.3021 - FAX +39.0165.302296
CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 02187360967
VAT: IT00571320076 - R.E.A. n. AO-50474

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

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2017024154
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CUSTOMER: COGNE SPECIALTY STEEL USA, INC
CUSTOMER'S ORDER: P040272
MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
PRODUCER OF THE DOC: QUALITY DEPARTMENT
MANUFACTURER'S WORKS ORDER NO: 25219852 /90 MARK OF THE MANUFACTURER: COGNE
DISPATCH NOTE: 81123980 /10 WEIGHT: 5,149.91

THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
INTERNAL SPEC: AMSQQS763_API6A
PRODUCT: 51112 PEL PEELED ROUND BARS TOLERANCE: + 0,002364 - 0,002364
SURFACE FINISH: 2B Cold Finished
PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
PRODUCT DIMENSIONS (Inch): 3.000 LENGTH (inch) 00240 /00264
GRADE: AISI316/316L UNS31600/S31603 INTERNAL GRADE: F316L IMCO
IDENTIFICATION HEAT NO: 772424 IDENTIFICATION LOT NO: 088400
MARKING OF THE PRODUCT: TEST PIECE N: 840

REFERENCE NORMS: ASTM A276/276M(16), ASTM A479/A479M(16), ASTM A484/A484M(16), ASTM A193/A193M(16) B8MCL1, ASME SA276(16), ASME SA479(16), ASME SA484(16), ASME SA193(16) B8MCL1, AMS5653H, AMS5648L, AMS-QQS-763D2015, NACE MR0175/ISO15156-3(15), NACE MR0103 2015, NORSOK M630 MDS S01 Rev5, EN 10272(07).

REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182/A182M(15)/ASME SA182(15), ASTM A314/A314M(15)/ASME SA320(15), ASTM A320/A320M(15A)/ASME SA320 (15) B8MCL1, EN 10222-5(2000).

AISI 316/316L UNS S31600/S31603, EN 1.4401/1.4404.

SOLUTION TREATED AT 1050°C / 1 min x mm / WATER.

STEELMAKING EAF + 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

CHEM. COMP. (%W/W) - LADLE ANALYSIS ACCORDING TO ASTM E1019-A751-E1086-E415-A580

ELEMENTS	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
OBTAINED	0.017	0.34	1.80	0.026	0.025	0.081	16.71	2.09	10.10	0.37
ELEMENTS	Co									
OBTAINED	0.18									

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000682267 - 2,580 KG
SPECIFICATION ASTM A370-E10 HARDNESS TEST HB TESTING METHOD: 10/3000
OBTAINED 176

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000682267 - 2,580 KG
SPECIFICATION EN ISO 148-1-KV2 DIRECTION OF THE TEST PIECE: L
TYPE OF TEST PIECE KV
TEST TEMPERATURE °C 20
MEASUREMENT UNIT J
OBTAINED 295 296 292

C180171



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TENSILE TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000682267 - 2,580 KG
 SPECIFICATION EN-ISO6892-1

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm MPA	Rp02% MPA	A %	Z %	Rp1% MPA
OBTAINED	594	257	5.0 D 56.7	74.8	292

GRAIN SIZE

Control lot No. - Weight :020000682267 - 2,580 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 :020000682267 - 2,580 KG
 SPECIFICATION ASTMA370-E8-0.5"SPEC

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm B KSI	Rp02_B KSI	Z B %	A12 B %
OBTAINED	86	37	74.7	4.0 D 61.0

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 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 Annex M.

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 (ROHS2) - 2000/53 - 2002/95 (RoHS) - 2003/11 - 2005/618 AND PED 2014/68/EU.

MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.

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.

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

DATE 08.05.2017

MORABITO ROSA CF (QUALITY CERTIFICATOR) - ELECTRONICALLY GENERATED CERTIFICATE

-Cogne