

Wolff 7064 SO# 3772
PO# 80094

CPA 4 POE 40

96 PCS



COGNE ACCIAI SPECIALI S.p.a.

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CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 02187360967
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)
DOCUMENT NUMBER 2016041028
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CUSTOMER: COGNE SPECIALTY STEEL USA, INC
 CUSTOMER'S ORDER: 4500265597
 MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
 PRODUCER OF THE DOC: QUALITY DEPARTMENT
 MANUFACTURER'S WORKS ORDER NO: 25209414 /30 MARK OF THE MANUFACTURER: COGNE
 DISPATCH NOTE: 81062733 /10 WEIGHT: 5,952.38

THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER

INTERNAL SPEC: AMSQQS763
 PRODUCT: 40301 SPE ROUGHPEELED ROUND BARS TOLERANCE: + 0,0591 - 0
 SURFACE FINISH: 1X Hot Finished
 PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 PRODUCT DIMENSIONS (Inch): 6.250 LENGTH (inch) 00120 /00168
 GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: F316L IMCO
 IDENTIFICATION HEAT NO: 601284 IDENTIFICATION LOT NO: 610300
 MARKING OF THE PRODUCT: 316L TEST PIECE N: 030

REFERENCE NORMS: ASTM A276/276M(16), ASTM A479/A479M(16), ASTM A484/A484M(16), ASTM A193/A193M(16) B8MCL1, ASME SA276(15), ASME SA479(15), ASME SA484(15), ASME SA193(15) 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
 QTC ON PROLONGATION OF BARS TESTS AT MID RADIUS (CENTER POS. FOR SIZES <2 INCHES).
 HOT ROLLED
 REDUCTION RATIO 12.0
 INITIAL STATUS 0.0

April 13/2017

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

Control lot No. - Weight :020000641650 - 87,195 KG

ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
OBTAINED	0.013	0.39	1.74	0.026	0.024	0.078	16.72	2.07	10.03	0.34
ELEMENTS OBTAINED	Co									
OBTAINED	0.14									

HARDNESS TEST IN AS DELIVERY CONDITION
 Control lot No. - Weight :020000641800 - 6,410 KG
 SPECIFICATION 168 ASTM A370-E10 HARDNESS TEST HB TESTING METHOD: 10/3000
 OBTAINED

IMPACT TEST IN AS DELIVERY CONDITION
 Control lot No. - Weight :020000641800 - 6,410 KG
 SPECIFICATION EN ISO 148-1-KV2 DIRECTION OF THE TEST PIECE: L
 TYPE OF TEST PIECE KV
 TEST TEMPERATURE °C 196-
 MEASUREMENT UNIT J
 OBTAINED 212 218 206

P115201 R141002 509370 601284 875

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GRAIN SIZE

Control lot No. - Weight : 020000641800 - 6,410 KG
SPECIFICATION OBTAINED 3 6 ASTM E112 --

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE FR-GDQ.IIT COMPLYING WITH API6A Annex M.
CORROSION TEST ACCORDING TO ASTM A262 Practice E EN ISO 3651-2 (NO SIGNS OF FISSURES OR CRACKS AT 20X MAGNIFICATION): SATISFACTORY.
SURFACE CONTROL BY VISUAL INSPECTION: CONFORMING.
DIMENSIONAL CONTROL ACCORDING TO ASTM A484: CONFORMING.
ULTRASONIC TEST ACCORDING TO EN 10308 Class.3, equivalent to
ASTM A388 FBH5 (for size <=250 mm) and FBH8 (size >250 mm): SATISFACTORY.
ANTIMIX TEST: SATISFACTORY.

TENSILE TEST

Control lot No. - Weight : 020000641800 - 6,410 KG
SPECIFICATION OBTAINED ASTM A370-E8-0.5" SPEC DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm B KSI	Rp0.2 B KSI	Z B %	A12 B %
OBTAINED	82	38	74.6	54.1

NO WELDING REPAIR ON THE MATERIAL
MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NO.
THE PRODUCT SATISFIES CE DIRECTIVES: 2011/65 (ROHS2) - 2000/53 - 2002/95 (ROHS) 2003/11 - 2005/618 AND PED 2014/68/EU.
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.
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 DEARS
352.225-7009 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.

April 13/2017