



COGNE ACCIAI SPECIALI S.p.a.

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CAP. SOC. 115.000.000 EUR INT. VERS.
C.F. 0218/360967
VAT: IT00571320076 - R.E.A. n. AO-50474

Company with Management Systems certified
according to ISO 9001, IATF 16949, EN 9100 and
ISO 14001.

HT# 801239

17 pcs

C225900

1/2

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2018051044
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CUSTOMER: COGNE SPECIALTY STEEL USA, INC
 CUSTOMER'S ORDER: P043717
 MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
 PRODUCER OF THE DOC: QUALITY DEPARTMENT
 MANUFACTURER'S WORKS ORDER NO: 25238951 /20 MARK OF THE MANUFACTURER: COGNE
 DISPATCH NOTE: 81229540 /10 WEIGHT: 8532 LB
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 INTERNAL SPEC: AMSQ05763_AP16A
 PRODUCT: 53337 SPE ROUGHPEELED ROUND BARS TOLERANCE: + 0,0788 - 0
 SURFACE FINISH: 1X Hot Finished
 PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 PRODUCT DIMENSIONS (Inch): 8.500 LENGTH (inch) 00240 /00288
 GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: F316L IMCO
 IDENTIFICATION HEAT NO: 801239 IDENTIFICATION LOT NO: 917700
 MARKING OF THE PRODUCT: 316L TEST PIECE N: 770

REFERENCE NORMS: ASTM A276/276M(17), ASTM A479/A479M(18), ASTM A484/A484M(18), ASTM A193/A193M(17) B8MCL1, ASME SA276(15), ASME SA479(15), ASME SA484(15), ASME SA193(15) B8MCL1, AMS5653H, AMS5648M, AMS-QQS-763D2015, NACE MR0175/ISO15156-3(15), NACE MR0103 2015, NORSOK M630 MDS S01 Rev5, EN 10272(16).

REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182/A182M(18)/ASME SA182(15), ASTM A314/A314M(15)/ASME SA314(15), ASTM A320/A320M(18)/ASME SA320(15) B8MCL1, EN 10222-5(2017).

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

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

STEELMAKING EAF + AOD

MACROSTRUCTURE CONFORMING TO THE SPEC. ASTM E340.

HOT FORGED

REDUCTION RATIO 8.9
INITIAL STATUS 0.0

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

Control lot No. - Weight :020000746706 -

ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu			
ELEMENTS OBTAINED	0.015	0.36	1.75	0.025	0.026	0.077	16.76	2.05	10.05	0.39			
ELEMENTS OBTAINED	Co												
	0.20												

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000746902 -

SPECIFICATION OBTAINED 164 - ASTMA370-E10 4,805 KG HARDNESS TEST HB TESTING METHOD: 10/3000

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000746902 -

SPECIFICATION OBTAINED 120 - EN ISO 148-1-KV2 4,805 KG
TYPE OF TEST PIECE OBTAINED 106 - KV DIRECTION OF THE TEST PIECE: T
TEST TEMPERATURE °C OBTAINED 92 - 196-
MEASUREMENT UNIT OBTAINED 106 - J

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TENSILE TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000746902 - 4,805 KG
SPECIFICATION EN-ISO6892-1

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm MPA	Rp02% MPA	A %	Z %	Rp1% MPA
OBTAINED	557	263	5.0 D 52.4	57.6	305

GRAIN SIZE

Control lot No. - Weight :020000746902 - 4,805 KG
SPECIFICATION ASTME112

OBTAINED 4 6

QTC ON PROLONGATION OF BARS TESTS AT MID RADIUS (CENTER POS. FOR SIZES <2 INCHES).

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ. ITT COMPLYING WITH API6A Annex M.

TENSILE TEST

Control lot No. - Weight :020000746902 - 4,805 KG
SPECIFICATION ASTMA370-E8-0.5"SPEC

DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	UTS KSI	YS KSI	RA %	EL %
OBTAINED	81	39	57.3	4.0 D 52.9

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 sizez <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.

ANTIMIX TEST: SATISFACTORY.

NO WELDING REPAIR ON THE MATERIAL.

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

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.

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 LAST REVISION AT THE DATE OF ISSUE OF THIS DOCUMENT.

COUNTRY OF ORIGIN: ITALY, THE MATERIAL COMPLIES WITH FAR DFARS
252.225-7009 ALT 1.