

C123458



COGNE ACCIAI SPECIALI S.p.a.
11100 AOSTA - VIA PARAVERA, 16
TEL +39.0165.3921 - FAX +39.0165.302256
CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 0218730067
VAT: IT00571320076 - R.E.A. n. AO-50474

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

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
(A03) DOCUMENT NUMBER 2015001600
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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 /200 (A04) MARK OF THE MANUFACTURER : COGNE
(A09) DISPATCH NOTE : 80942091 /10 (B14) WEIGHT . . : 8,359.79
THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
INTERNAL SPEC. : AMSQOS763_API6A
(B01) PRODUCT : 53336 SPE ROUGHPEELED ROUND BARS TOLERANCE : + 0,0788 - 0
(B03) SURFACE FINISH :
(B04) PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
(B09) PRODUCT DIMENSIONS (Inch): 8.000 (B10) LENGTH (inch) 00240 /00288
(B02) GRADE : AISI 316/316L - UNS31600/31603 INTERNAL GRADE : F316L IMCO
(B07) IDENTIFICATION HEAT NO: 401668 (B07) IDENTIFICATION LOT NO.: 564900
(B06) MARKING OF THE PRODUCT : 316L TEST PIECE N. : 490

REFERENCE NORMS: ASTM A276, ASTM A479, ASTM A484, ASTM A193B8MCL1, ASME SA276, ASME SA479, ASME SA484, ASME SA193B8MCL1, AMS-QQS-763(replacing FEDQOS763 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
QTC ON PROLONGATION OF BARS TESTS AT MID RADIUS (CENTER POS. FOR SIZES <2 INCHES).
HOT FORGED
REDUCTION RATIO 10.4
INITIAL STATUS 0.0

(C71) CHEM. COMP. - LADLE ANALYSIS ACCORDING ASTM E1019-A751-E1086-E415-A580
Control lot No. - Weight :020000555242 - 95,900 KG

ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
OBTAINED	0.028	0.36	1.77	0.027	0.025	0.074	17.05	2.08	10.20	0.30
ELEMENTS OBTAINED	Co									
OBTAINED	0.18									

HARDNESS TEST IN AS DELIVERED CONDITION
Control lot No. - Weight :020000555242 - 4,803 KG
SPECIFICATION 169 - ASTM A370-E10 HARDNESS TEST HB TESTING METHOD : 10/3000
OBTAINED

IMPACT TEST IN AS DELIVERY CONDITION
Control lot No. - Weight :020000555242 - 4,803 KG
SPECIFICATION EN ISO 148-1-KV2 (C02) DIRECTION OF THE TEST PIECE: T
(C40) TYPE OF TEST PIECE KV
(C03) TEST TEMPERATURE °C 20
MEASUREMENT UNIT J
OBTAINED 286 282 280

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GRAIN SIZE
 Control lot No. - Weight :020000555427 - 4,803 KG
 SPECIFICATION ASTME112 --
 OBTAINED 4 6

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ.ITT COMPLYING WITH API6A.
 CORROSION TEST ACCORDING TO ASTM A262 Practice E EN ISO 3651-2: 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 (sizes >250 mm): SATISFACTORY.
 ANTIMIX TEST: SATISFACTORY.

TENSILE TEST
 Control lot No. - Weight :020000555427 - 4,803 KG
 SPECIFICATION ASTMA370-E8-0.5"SPEC (C02) DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	Rm B KSI	Rp02_B KSI	Z B %	A12 B %
OBTAINED	83	40	80.1	4,0 D 66.3

NO WELDING REPAIR ON THE MATERIAL
 MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.
 THE PRODUCT SATISFIES CE DIRECTIVES: 2011/65 - 2000/53 2002/95 (RoHS) 2003/11 - 2005/618 AND PED 97/23/EC.
 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 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.