



COGNE ACCIAI SPECIALI S.p.a.

11100 AOSTA - VIA PARAVERA, 16
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 IGQ
approved and certified according to ISO 9001,
ISO/TS 16949 e ISO 14001.

C123471

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
(A03) DOCUMENT NUMBER 2015001060
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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 /190 (A04) MARK OF THE MANUFACTURER : COGNE
 (A09) DISPATCH NOTE : 80942080 /10 (B14) WEIGHT . . : 6,895.94
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER

INTERNAL SPEC. : AMSQ05763_API6A
 (B01) PRODUCT : 53335 SPE ROUGHPEELED ROUND BARS TOLERANCE : + 0,0788 - 0
 (B03) SURFACE FINISH :
 (B04) PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 (B09) PRODUCT DIMENSIONS (Inch): 7.250 (B10) LENGTH (inch) 00240 /00288
 (B02) GRADE : AISI 316/316L - UNS31600/31603 INTERNAL GRADE : F316L IMCO
 (B07) IDENTIFICATION HEAT NO: 401654 (B07) IDENTIFICATION LOT NO.: 564890
 (B06) MARKING OF THE PRODUCT : 316L TEST PIECE N. : 489

REFERENCE NORMS: ASTM A276, ASTM A479, ASTM A484, ASTM A193B8MCL1, ASME SA276, ASME SA479, ASME SA484, ASME SA193B8MCL1, AMS-Q05-763(replacing FEDQ05763 on 7/1/98), AMS 5653F, AMS 5648K, NACE MR0175/ISO15156-3, NACE MR0103, NORSOK MDS01Rev3, 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 12.3
 INITIAL STATUS 0.0

(C71) CHEM. COMP. - LADLE ANALYSIS ACCORDING ASTM E1019-A751-E1086-E415-A580
 Control lot No. - Weight :020000554929 - 85,132 KG

ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
ELEMENTS OBTAINED	0.012	0.33	1.79	0.027	0.024	0.078	16.91	2.07	10.27	0.35
ELEMENTS OBTAINED	Co	0.12								

HARDNESS TEST IN AS DELIVERED CONDITION
 Control lot No. - Weight :020000555194 - 4,094 KG
 SPECIFICATION ASTMA370-E10 HARDNESS TEST HB TESTING METHOD : 10/3000
 OBTAINED 171

IMPACT TEST IN AS DELIVERY CONDITION
 Control lot No. - Weight :020000555194 - 4,094 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 148 150 150

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GRAIN SIZE
Control lot No. - Weight :020000555194 - 4,094 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 sizez <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.
ANTIMIX TEST: SATISFACTORY.

TENSILE TEST
Control lot No. - Weight :020000555194 - 4,094 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	84	38	78.2	4,0 D 62.7

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.