

C 16 8373



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 IGO
 approved and certified according to ISO 9001,
 ISO/TS 16949 e ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
 DOCUMENT NUMBER 2016050213
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CUSTOMER: COGNE SPECIALTY STEEL USA, INC
 CUSTOMER'S ORDER: P038572
 MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
 PRODUCER OF THE DOC: QUALITY DEPARTMENT
 MANUFACTURER'S WORKS ORDER NO: 25210588 /100 MARK OF THE MANUFACTURER: COGNE
 DISPATCH NOTE: 81074523 /10 WEIGHT: 9,997.80
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 INTERNAL SPEC: AMSQOS763
 PRODUCT: 58945 LMA MACHINED ROUND BARS TOLERANCE: + 0,197 - 0
 SURFACE FINISH: 1X Hot Finished
 PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 PRODUCT DIMENSIONS (Inch): 23.500 LENGTH (inch) 00071 /00079
 GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: 316L 4
 IDENTIFICATION HEAT NO: 601576 IDENTIFICATION LOT NO: 705060
 MARKING OF THE PRODUCT: 316L TEST PIECE N: 506

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 FORGED

REDUCTION RATIO 5.4
 INITIAL STATUS 0.0

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

Control lot No. - Weight	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
:020000647013 - 85,002 KG										
ELEMENTS OBTAINED	0.021	0.44	1.85	0.030	0.0007	0.077	16.87	2.04	10.05	0.39
ELEMENTS OBTAINED	Co	0.12								

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000647220 - 15,720 KG
 SPECIFICATION ASTMA370-E10 HARDNESS TEST HRC TESTING METHOD: 10/3000
 OBTAINED 20

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000647220 - 15,720 KG
 SPECIFICATION EN ISO 148-1-KV2 DIRECTION OF THE TEST PIECE: T
 TYPE OF TEST PIECE KV
 TEST TEMPERATURE °C 196-
 MEASUREMENT UNIT J
 OBTAINED 113 108 107

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GRAIN SIZE
Control lot No. - Weight :020000647220 - 15,720 KG
SPECIFICATION ASTME112 --
OBTAINED 2 4

HARDNESS TEST
Control lot No. - Weight :020000647220 - 15,720 KG
SPECIFICATION ENISO6506 HARDNESS TEST HB TESTING METHOD:
OBTAINED 165

TENSILE TEST
Control lot No. - Weight :020000647220 - 15,720 KG
SPECIFICATION ASTMA370-E8-0.5"SPEC DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	TS KSI	YS KSI	RA %	EL4 %
OBTAINED	80	42	79.7	4,0 D 63.1

SURFACE CONTROL BY VISUAL INSPECTION: SATISFACTORY.
DIMENSIONAL CONTROL ACCORDING TO ASTM A484: SATISFACTORY.
ULTRASONIC TEST ACCORDING TO ASTM A388 FBH 8 (FBH11 FOR SIZES >400 MM): SATISFACTORY.
MARKING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.
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 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.
THE PRODUCT SATISFIES CE DIRECTIVES: 2011/65 - 2000/53 2002/95(ROHS) 2003/11 - 2005/618 AND PED 2014/68/EU.
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).