

C168381



COGNE ACCIAI SPECIALI S.p.a.
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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 ISO
approved and certified according to ISO 9001,
ISO/TS 16949 e ISO 14001.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2016041491
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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 /40 MARK OF THE MANUFACTURER: COGNE
DISPATCH NOTE: 81074522 /10 WEIGHT: 9,391.53
THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
INTERNAL SPEC: AMSQSS763
PRODUCT: 44043 LMA MACHINED ROUND BARS TOLERANCE: + 0,1182 - 0
SURFACE FINISH: 1X Hot Finished
PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
PRODUCT DIMENSIONS (Inch): 16.000 LENGTH (inch) 00120 /00168
GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: 316L 4
IDENTIFICATION HEAT NO: 601439 IDENTIFICATION LOT NO: 669060
MARKING OF THE PRODUCT: 316L TEST PIECE N: 906

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 5.5
INITIAL STATUS 0.0

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

Control lot No. - Weight	88,102 KG									
ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
ELEMENTS OBTAINED	0.024	0.32	1.95	0.027	0.0010	0.074	16.71	2.04	10.15	0.31
ELEMENTS OBTAINED	Co 0.10									

HARDNESS TEST IN AS DELIVERY CONDITION
Control lot No. - Weight :020000644959 - 4,890 KG
SPECIFICATION OBTAINED 21 ASTMA370-E10 HARDNESS TEST HRC TESTING METHOD: 10/3000

IMPACT TEST IN AS DELIVERY CONDITION
Control lot No. - Weight :020000644959 - 4,890 KG
SPECIFICATION OBTAINED 296 EN ISO 148-1-KV2 DIRECTION OF THE TEST PIECE: T
TYPE OF TEST PIECE KV
TEST TEMPERATURE °C 196-
MEASUREMENT UNIT J
OBTAINED 296 296 296



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GRAIN SIZE
 Control lot No. - Weight : 020000644959 -
 SPECIFICATION 0 ASTME112 -- 4,890 KG
 OBTAINED 1

HARDNESS TEST
 Control lot No. - Weight : 020000644959 - 4,890 KG
 SPECIFICATION 147 ENISO6506 HARDNESS TEST HB TESTING METHOD:
 OBTAINED

TENSILE TEST
 Control lot No. - Weight : 020000644959 - 4,890 KG
 SPECIFICATION ASTMA370-E8-0.5"SPEC DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	TS	YS	RA	EL4
OBTAINED	KSI	KSI	%	%
	82	36	77.0	4,0 D
				61.0

SURFACE CONTROL BY VISUAL INSPECTION: SATISFACTORY.
 DIMENSIONAL CONTROL ACCORDING TO ASTM A484: SATISFACTORY.
 ULTRASONIC TEST ACCORDING TO ASTM A388 FBH 8 (FBH1 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 DEARS
 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).