

ASA P0# 0057 WCH 6988

CPA 6 F0E42

75 pcs  
CD : 9" x 1.05" thick

C168379



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 11100 AOSTA - VIA PARAVERA, 16  
TEL +39.0165.3021 - FAX +39.0165.302288  
CAP. 800. 100.000.000 EUR INT. VERS.  
C.F. 02187300967  
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 2016048881  
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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 /90 MARK OF THE MANUFACTURER: COGNE  
DISPATCH NOTE: 81074517 /10 WEIGHT: 10,758.38  
THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER  
INTERNAL SPEC: AMSQSQS763  
PRODUCT: 56044 SPE ROUGHPEELED ROUND BARS TOLERANCE: + 0,0788 - 0  
SURFACE FINISH: 1X Hot Finished  
PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED  
PRODUCT DIMENSIONS (Inch): 9.000 ✓ LENGTH (inch) 00264 /00288  
GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: F316L IMCO  
IDENTIFICATION HEAT NO: 601551 IDENTIFICATION LOT NO: 670000  
MARKING OF THE PRODUCT: 316L ✓ TEST PIECE N: 000

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 10.3  
INITIAL STATUS 0.0

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

Control lot No. - Weight :020000646396 -

81,698 KG

ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
ELEMENTS OBTAINED	0.012	0.36	1.74	0.025	0.023	0.075	16.69 ✓	2.08 ✓	10.16 ✓	0.28
	Co									
	0.16									

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000647177 -

5,293 KG

SPECIFICATION

ASTMA370-E10

HARDNESS TEST

HB TESTING METHOD: 10/3000

OBTAINED

162

IMPACT TEST IN AS DELIVERY CONDITION

Control lot No. - Weight :020000647177 -

5,293 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

108

94

95

Jan 12/17  
ic  
2 ok



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GRAIN SIZE

Control lot No. - Weight :020000647177 - 5,293 KG  
 SPECIFICATION OBTAINED 0 1 ASTME112 --

HEAT TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ.ITT COMPLYING WITH API6A Annex M.  
 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 size <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.  
 ANTIMIX TEST: SATISFACTORY.

TENSILE TEST

Control lot No. - Weight :020000647177 - 5,293 KG  
 SPECIFICATION OBTAINED 0 1 ASTMA370-E8-0.5"SPEC

DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT

OBTAINED

Rm B	Rp02_B	Z B	A12 B
KSI	KSI	%	%
79	40	57.0	54.8

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 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.  
 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.

Jan 12/17  
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