

C104059



COGNE ACCIAI SPECIALI S.p.a.

ITALY - 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.

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)  
 (A03) DOCUMENT NUMBER 2015037069  
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(A06) CUSTOMER : COGNE SPECIALTY STEEL USA, INC  
 (A07) CUSTOMER'S ORDER : 4500250627  
 (A01) MANUFACTURER'S WORKS : AOSTA, VIA PARAVERA 16 - ITALY  
 (A05) PRODUCER OF THE DOC: QUALITY DEPARTMENT  
 (A08) MANUFACTURER'S WORKS ORDER NO: 25193788 /50 (A04) MARK OF THE MANUFACTURER : COGNE  
 (A09) DISPATCH NOTE : 80981685 /10 (B14) WEIGHT : 11,380.07  
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER  
 INTERNAL SPEC. : AMSQQS763  
 (B01) PRODUCT : 50368 SPE ROUGHPEELED ROUND BARS TOLERANCE : + 0,0985 - 0  
 (B03) SURFACE FINISH : 1X Hot Finished  
 (B04) PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED  
 (B09) PRODUCT DIMENSIONS (Inch): 13.000 (B10) LENGTH (inch) 00120 /00168  
 (B02) GRADE : AISI 316/316L - UNS31600/31603 INTERNAL GRADE : F316L IMCO  
 (B07) IDENTIFICATION HEAT NO: 501060 (B07) IDENTIFICATION LOT NO.: 987990  
 (B06) MARKING OF THE PRODUCT : 316L TEST PIECE N. : 799

REFERENCE NORMS: ASTM A276(08), ASTM A479(11), ASTM A484(08), ASTM A193(09) B8MCL1, ASME SA276(10), ASME SA479(10), ASME SA484(10), ASME SA193(10) B8MCL1, AMS5653G, AMS5648L, AMS-QQS-763B(replacing FEDQQS763 on 7/1/98), NACE MR0175/ISO15156-3(09), NACE MR0103 2010, NORSOK MDSS01Rev3.

REFERENCE NORMS FOR CHEMICAL COMPOSITION AND MECHANICAL PROPERTIES: ASTM A182(10)/ASME SA182(10), ASTM A314(08).  
 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 5.0  
 INITIAL STATUS 0.0

(C71) CHEM. COMP. - LADLE ANALYSIS ACCORDING ASTM E1019-A751-E1086-E415-A580

Control lot No. - Weight	:020000589959 - 77,413 KG									
ELEMENTS OBTAINED	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu
ELEMENTS OBTAINED	0.017	0.40	1.79	0.029	0.028	0.079	17.09	2.07	10.07	0.33
ELEMENTS OBTAINED	Co									
ELEMENTS OBTAINED	0.13									

HARDNESS TEST IN AS DELIVERED CONDITION

Control lot No. - Weight :020000589958 - 5,240 KG  
 SPECIFICATION OBTAINED 162 ASTMA370-E10 HARDNESS TEST HB TESTING METHOD : 10/3000

GRAIN SIZE

Control lot No. - Weight :020000589958 - 5,240 KG  
 SPECIFICATION OBTAINED 5 7 ASTME112 --

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 (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 sizez <=250 mm) and FBH8 (sizez >250 mm): SATISFACTORY.

C164659



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ANTIMIX TEST: SATISFACTORY.

TENSILE TEST

Control lot No. - Weight :020000589958 - 5,240 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	79	44	57.0	55.6

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

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.