



COGNE ACCIAI SPECIALI S.p.a.

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CAP. SOC. 100.000.000 EUR INT. VERS.
C.F. 02187360967
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Company with management systems ISO
approved and certified according to ISO 9001,
ISO/TS 16949 e ISO 14001.

C 193055

INSPECTION CERTIFICATE 3.1 (EN 10204:2004)
DOCUMENT NUMBER 2017039861
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ORDER: COGNE SPECIALTY STEEL USA, INC
 ORDER'S ORDER: P040936
 MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY
 ISSUER OF THE DOC: QUALITY DEPARTMENT
 MANUFACTURER'S WORKS ORDER NO: 25223727 / 30 MARK OF THE MANUFACTURER: COGNE
 ATTENTION NOTE: 81139374 / 10 WEIGHT: 6,490.30
 THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER
 TECHNICAL SPEC: AMSQQS763
 PRODUCT: 56029 SPE ROUGHPEELED ROUND BARS TOLERANCE: + 0,0591 - 0
 SURFACE FINISH: 1X Hot Finished
 PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED
 PRODUCT DIMENSIONS (Inch): 5.000 LENGTH (inch) 00264 / 00288
 IDENTIFICATION HEAT NO: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: F316L IMCO
 DESCRIPTION OF THE PRODUCT: 701180 IDENTIFICATION LOT NO: 166690
 TEST PIECE N: 669

REFERENCE NORMS: ASIM A276/276M(16), ASTM A479/A479M(16), ASTM A484/A484M(16), ASTM A193/A193M(16) B8MCL1, ASME SA276(16), ASME
 A193(16), ASME SA484(16), ASME SA193(16) B8MCL1, AMS5653H, AMS5648L, AMS-QQS-763D2015, NACE MR0175/ISO15156-3(15), NACE MR0103
 , 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
 A314(15), ASTM A320/A320M(15A)/ASME SA320(15) B8MCL1, EN 10222-5(2000).
 316/316L UNS S31600/S31603, EN 1.4401/1.4404.
 SOLUTION TREATED AT 1050°C / 1 min x mm / WATER.

DEWELDING EAF + AOD
 MICROSTRUCTURE CONFORMING TO THE SPEC. ASTM E340.
 PROLONGATION OF BARS TESTS AT MID RADIUS (CENTER POS. FOR SIZES <2 INCHES).
 ROLLED
 SECTION RATIO 26.8
 SURFACE STATUS 0.0

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

Roll lot No. - Weight	:020000691656 - 83,129 KG										
ELEMENTS	C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	
FINISHED	0.020	0.37	1.77	0.027	0.027	0.078	16.70	2.08	10.09	0.30	
FINISHED	Co	0.15									

MECHANICAL TEST IN AS DELIVERY CONDITION

Roll lot No. - Weight :020000692021 - 4,760 KG
 IDENTIFICATION 172 - ASTMA370 E10 HARDNESS TEST HB TESTING METHOD: 10/3000

METALLOGRAPHIC TEST IN AS DELIVERY CONDITION

Roll lot No. - Weight :020000692021 - 4,760 KG
 IDENTIFICATION 182 - EN ISO 148-1-KV2 DIRECTION OF THE TEST PIECE: L
 TEMPERATURE °C 196
 MEASUREMENT UNIT 182 186



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ISO 9001:2000 e ISO 14001.

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INSPECTION CERTIFICATE 3.1 (EN 10204:2004
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ITEM TEST IN AS DELIVERY CONDITION
rol lot No. - Weight :020000692021 - 4,760 KG
IFICATION

EN-ISO6892-1

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	Rm MPA	Rp0.2 MPA	A %	Z %	Rp1 MPA
IN	588	276	5.0 D 58.7	75.0	325

N SIZE
rol lot No. - Weight :020000692021 - 4,760 KG
IFICATION
IN

ASTM E112 --

4 6

TREATMENT PERFORMED IN CALIBRATED FURNACES ACCORDING TO INTERNAL PROCEDURE PR-GDQ. ITT COMPLYING WITH APIGA Annex M.
CE CONTROL BY VISUAL INSPECTION: CONFORMING.
NON-DESTRUCTIVE CONTROL ACCORDING TO ASTM A484: CONFORMING.
ULTRASONIC TEST ACCORDING TO EN 10308 Class.3, equivalent to
A388 FBH5 (for sizes <=250 mm) and FBH8 (sizes >250 mm): SATISFACTORY.
MIX TEST: SATISFACTORY.

ITEM TEST
rol lot No. - Weight :020000692021 - 4,760 KG
IFICATION

ASTM A370-E8-0.5" SPEC

DIRECTION OF THE TEST PIECE: L

MEASUREMENT UNIT	UTS KSI	YS KSI	RA %	EL %
IN	85	40	74.1	4.0 D 61.8

WELDING REPAIR ON THE MATERIAL.
ING: PRODUCER LOGO, MATERIAL NO, HEAT NO, LOT NR.
PRODUCT SATISFIES CE DIRECTIVES: 2011/65 (ROHS2) - 2000/53 - 2002/95 (ROHS) - 2003/11 - 2005/618 AND PED 2014/68/EU.
MATERIAL IS FREE OF ANY MERCURY, MERCURY COMPOUNDS AND OR RADIUM CONTAMINATION AT TIME OF SHIPMENT AND WAS PRODUCED WITHOUT
G OZONE DEPLETING SUBSTANCES OF CLASS I AND II.
ABOVE ARE TRUE AND CORRECT RESULTS OF TESTS ON SAMPLES OF THE MATERIAL. RESULTS ARE CONFORM TO THE SPECIFICATION(S) APPLICABLE
ARE RECORDED.
RECORDING OF FALSE, FICTITIOUS OR FRAUDULENT STATEMENTS OR ENTRIES ON THIS DOCUMENT MAY BE PUNISHABLE AS A FELONY UNDER U.S.
RAL STATUTES.
THE NORMS MENTIONED ARE INTENDED IN THEIR LAST REVISION AT THE DATE OF ISSUE OF THIS DOCUMENT.
TRY OF ORIGIN: ITALY, THE MATERIAL COMPLIES WITH FAR DEANS
2.25-7009 ALL I.

2017

MORAVITSKO BRNO QUALITY CERTIFICATION ELECTRICALLY GROUNDING CERTIFICATE

Cogné