

C175986



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. 02187380967  
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 2017007755  
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CUSTOMER: COGNE SPECIALTY STEEL USA, INC  
 CUSTOMER'S ORDER: P039482  
 MANUFACTURER'S WORKS: AOSTA, VIA PARAVERA 16 - ITALY  
 PRODUCER OF THE DOC: QUALITY DEPARTMENT  
 MANUFACTURER'S WORKS ORDER NO: 25215686 /60 MARK OF THE MANUFACTURER: COGNE  
 DISPATCH NOTE: 81100708 /10 WEIGHT: 8,562.61

THE CERTIFIED PRODUCTS ARE COMPLYING TO THE PURCHASE ORDER

INTERNAL SPEC: AMSQ5763  
 PRODUCT: 60020 SPE ROUGHPEELED ROUND BARS TOLERANCE: + 0,1182 - 0  
 SURFACE FINISH: 1X Hot Finished  
 PRODUCT DELIVERY CONDITION: RS SOLUTION ANNEALED  
 PRODUCT DIMENSIONS (Inch): 15.000 LENGTH (inch) 00120 /00168  
 GRADE: AISI 316/316L - UNS31600/31603 INTERNAL GRADE: 316L 4  
 IDENTIFICATION HEAT NO: 602334 IDENTIFICATION LOT NO: 889260  
 MARKING OF THE PRODUCT: 316L TEST PIECE N: 926

REFERENCE NORMS: ASTM A276, ASTM A479, ASTM A484, ASMESA276, ASME SA479, ASME SA484, AMS-QQS-763B, NACE MR0175/ISO15156-3, NACE MR0103, AMS 5648L, AMS 5653.

REFERENCE NORMS FOR CHEMICAL COMPOSITION ONLY: ASTM A182/ASMESA182, ASTM A314.

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 6.2  
INITIAL STATUS 0.0

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

Control lot No. - Weight	:020000662626	-	82,594	KG									
ELEMENTS OBTAINED			C	Si	Mn	P	S	N	Cr	Mo	Ni	Cu	
ELEMENTS OBTAINED			0.020	0.45	1.90	0.030	0.0009	0.076	16.95	2.04	10.18	0.35	
ELEMENTS OBTAINED			Co										
ELEMENTS OBTAINED			0.10										

HARDNESS TEST IN AS DELIVERY CONDITION

Control lot No. - Weight	:020000662930	-	9,580	KG								
SPECIFICATION OBTAINED	21		ASTMA370-E10	HARDNESS TEST	HRC	TESTING METHOD:	10/3000					

GRAIN SIZE

Control lot No. - Weight	:020000662930	-	9,580	KG								
SPECIFICATION OBTAINED	2	4	ASTME112	--								

HARDNESS TEST

Control lot No. - Weight	:020000662930	-	9,580	KG								
SPECIFICATION OBTAINED	147		ENISO6506	HARDNESS TEST	HB	TESTING METHOD:						

602334

1202100

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TENSILE TEST

Control lot No. - Weight :020000662930 - 9,580 KG  
SPECIFICATION ASTMA370-E8-0.5"SPEC

DIRECTION OF THE TEST PIECE: T

MEASUREMENT UNIT	TS KSI	YS KSI	RA %	EL4 %
OBTAINED	83	37	80.6	4,0 D 62.6

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 (ROHS2) - 2000/53 - 2002/95 (RoHS) - 2003/11 - 2005/618