



North American Stainless Canada Inc  
740 Imperial Road North  
Guelph, ON N1K1Z3  
Canada

**METALLURGICAL TEST REPORT**

R5304L

69738.

6870 Highway 42 East  
Chenl, KY 41045-9615  
(502) 347-6000

Certificate: 504740 1 Mail To:  
ROLARK STAINLESS STEEL, INC.  
Customer: 007050 001 71 CONAIR PARKWAY  
WOODBRIIDGE, ON L4H0S4

Ship To:  
ROLARK STAINLESS STEEL, INC.  
71 CONAIR PARKWAY  
WOODBRIIDGE, ON L4H0S4

Date: 4/30/2019 Page: 1  
Steel: 304/304L

Your Order: 69738

NAS Order: DN 0104177 06

Heat Treat Code: 52,783

Corrosion: ASTM A262/15 Prag A/E OK  
Red Ratio: 3.0 : 1

**PRODUCT DESCRIPTION:**

Round Bar, Annealed, Smooth turned, Cold Finished  
UNS S30400/S30403, EN 10204 3.1, ASTM A484/18  
ASTM A276/17, ASTM A479/18, ASTM A182/18 CHEM ONLY,  
ASTM A479/17, ASTM SA182/18 CHEM ONLY, ASTM F899/12B  
AMS 5639/J, AMS 5647/R, AMS-QQS-763/D, QQS:763/E  
NACE MR0175/15 (MID RADIUS ONLY), MR0103/15 (MID RADIUS ONLY)  
SOLUTION ANNEAL TEMP 1900F MTN, ASTM A320/17a CL 1 GR B8  
ASTM A193/17, ASTM SA193/17 CL 1 GR B8(EXC PAR 6.2)  
GRAIN SIZE = 6-8

**REMARKS:**

COMPLIES W/REQUIREMENTS OF DPAR 252.225-7009 EU DIRECTIVE  
2011/65/EU, ROHS, EAP+AOD+CC. NO WELD REPAIR. MELTED AND REG  
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Product ID	Skid #	Diameter	Size	Weight	Length	Mark	Pieces	Commodity Code
BK3428 5		5.0000		1.736	144.00	7	1	

**CHEMICAL ANALYSIS**

UNS Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %
B98D	US	.017	.36	18.23	.32	1.44	.315	.062	8.69	.029
	S %	SI %								
	.0201	.20								

ANAB, ISO/IEC 17025, Certificate# I2323  
Chemical Analysis per ASTM A751/14a

**MECHANICAL PROPERTIES**

Product ID	Yield		Tensile		RA %	Elong % 4D
	ksi	MPa	ksi	MPa		
BK3428 5	162.0	41.00	86.00	68.00	68.00	51.00

NAS hereby certifies that the analysis on this certification is correct. Based upon the results and the accuracy of the test methods used, the material meets the specifications stated. These results relate only to the items tested and this report cannot be reproduced, except in its entirety, without the written approval of NAS.

Technical Dept. Mgr.

*[Signature]*

KRIS LARK

4/30/2019

P.O. # 5490 Part # 03-FOUR, 40-658  
Description: 3" SCH 40 SW. 658 BORE 304 S/S

*[Handwritten initials]*