

Y5W5



METALLURGICAL TEST REPORT

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

Certificate: 167697 07	Mail To: COPPER AND BRASS SALES, INC. ATTN: ACCOUNTS PAYABLE SOUTHFIELD MI 48086-	Ship To: COPPER AND BRASS SALES, INC. CUSTOMER PICKUP PORTLAND OR 97230	Date: 4/20/2016 Page: 1 OF 1 Steel: 316/316L Finish: Hot Finish Dia/Thk: 3.7500 in Leg Length: Length: 144.00 in Corrosion: ASTM A262 Prac B OK
Customer: 0925 050			
NAS Order: LP 46984 4			
Your Order: 5400297965	Item Code: SSRD00268		

PRODUCT DESCRIPTION:

Round Bar, Hot Rolled, Annealed, Rough Turned
UNS 31600/31603 EN 10204 3.1, ASTM A484/15
ASTM A276/15, ASTM A479/15, ASTM A182/13 CHEM ONLY,
ASME SA479/13, ASME SA182/10 CHEM ONLY, ASTM F899/11
AMS 5648L/AMS 5653K, AMS QQS-763D, QQS 763F
NACE MR0175/MR0103 (MID RADIUS ONLY),
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/08 CL 1 GR B8M
ASTM A193/10A-ASME SA193/10 CL 1 GR B8M(EXC PAR 7.2)

REMARKS:

COMPLIES W/REQUIREMENTS OF DFAR 252.225-7009 EU DIRECTIVE
2011/65/EU. RoHS. EAF+AOD+CC. NO WELD REPAIR. MELTED AND MFG
IN USA FREE FROM MERCURY AND LOW MELTING ALLOY CONTAMINATION

Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight	Bundle Weight
BH86563	1389								

Lab Accreditation Bureau, ISO/IEC 17025, Certificate# L2323

CHEMICAL ANALYSIS CM(Country of Melt) ES(Spain) US(United States) ZA(South Africa) JP(Japan)

Chemical Analysis per ASTM A751/14a

Heat	Supplier #	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
Y5W5		US	.013	.29	16.66	.32	1.44	2.01	.033	10.52	.031	.0187
			SI %									
			.21									

MECHANICAL PROPERTIES

id	HB	.2YS	UTS	RA	Elong	
o i	No.	KSI	KSI	%	% 4D	
S F						
BH86563	R L	141.0	35.00	78.00	72.00	67.00

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. KRIS LARK

From: TK Materials CA, Ltd.
 Cust. NEXXA INDUSTRIES LTD.
 CstAr
 Wgt.: 160.764 LB

Del.: 2404583894

CstOr Kevin

Date 06/08/2016