

**METALLURGICAL TEST REPORT**

R274145

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

Certificate: 729612 07	Mail To: EARLE M. JORGENSEN COMPANY 1900 MITCHELL BLVD. SCHAUMBURG IL 60193	Ship To: EARLE M. JORGENSEN COMPANY 1900 MITCHELL BLVD. SCHAUMBURG IL 60193	Date: 10/11/2021 Page: 1 of 1
Customer: 0245 001			Steel: 316/316L
NAS Order: LM 71501 2	Red Ratio: 4.7 :1	Heat Treat Code: 67,186	Finish: Hot Finish
Your Order: F183186-423	Item Code: 509358		Dia/Thk: 4.0000 in
			Leg Length: 144.00 in
			Corrosion: ASTM A262/15 Prac A/E OK

**PRODUCT DESCRIPTION:**

Round Bar, Hot Rolled, Annealed, Rough Turned  
UNS S31600/S31603 EN 10204 3.1, ASTM A484/20b  
ASTM A276/17, ASTM A479/20, ASTM A182/20 CHEM ONLY,  
ASME SA479/19, ASME SA182/20 CHEM ONLY,  
AMS 5648/M, AMS 5653/J, AMS-QQS-763/D, QQS:763/F  
NACE MR0175/15(MID RADIUS ONLY), MR0103/15(MID RADIUS ONLY)  
SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/18 CL 1 GR B8M  
ASME SA193/19 CL 1 GR B8M(EXC PAR 7.3.1)  
GRAIN SIZE = 6-8, ASTM A193/20, CL 1 GR B8M(EXC PAR 6.2.1)

**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
BM20974 3100	BM21099 3099	BM21101 3098	BM21104 3106	BM21106 3093					

ANAB, 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 A751/20

NAS Heat	Supplier Heat	CM	C %	CO %	CR %	CU %	MN %	MO %	N %	NI %	P %	S %
N92Y		US	.019	.41	16.78	.33	1.45	2.042	.034	10.62	.028	.0220
			SI %									
			.25									

**MECHANICAL PROPERTIES**

	l d o i c r	HB No.	.2YS KSI	UTS KSI	RA %	Elong % 4D
BM20974	R L	149.0	33.27	80.12	76.95	58.25
BM21099	R L	149.0	33.27	80.12	76.95	58.25
BM21101	R L	149.0	33.27	80.12	76.95	58.25
BM21104	R L	149.0	33.27	80.12	76.95	58.25
BM21106	R L	149.0	33.27	80.12	76.95	58.25

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

Technical  
Dept. Mgr.



ANS