

SIN 6274

Pins



**NORTH AMERICAN
STAINLESS**

METALLURGICAL TEST REPORT

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

| | | | |
|-------------------------|--|--|-------------------------------------|
| Certificate: 369943 01 | 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: 1/10/2018 Page: 1 Of 1 |
| Customer: 0245 001 | | | Steel: 316/316L |
| NAS Order: LP 76786 37 | | Heat Treat Code: 44,763 | Finish: Cold Draw |
| Your Order: P840049-423 | Item Code: 525402 | | Dia/Thk: .3750 in |
| | | | Leg Length: |
| | | | Length: 144.00 in |
| | | | Corrosion: ASTM A262/15 Prac A/E OK |

PRODUCT DESCRIPTION:

HEATED TO 1900F MIN & QUENCHED; GRAIN SIZE= 4-6
 Round Bar, Annealed, Cold Draw
 UNS 31600/31603 EN 10204 3.1, ASTM A484/16
 ASTM A276/17, ASTM A479/17, ASTM A182/16a CHEM ONLY,
 ASME SA479/13, ASME SA182/13 CHEM ONLY, ASTM F899/12b
 AMS 5648M/AMS 5653H, AMS QQS-763D, QQS 763F
 SOLUTION ANNEAL TEMP 1900F MIN, ASTM A320/17a CL 1 GR B8M
 ASTM A193/16-ASME SA193/13 CL 1 GR B8M

REMARKS:

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

R 381811

| Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight | Bundle Weight |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BJ20167 | 3022 | | | | | | | | |

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

| NAS Heat | Supplier Heat | CM | C % | CO % | CR % | CU % | MN % | MO % | N % | NI % | P % | S % |
|----------|---------------|----|------|------|-------|------|------|-------|------|-------|------|-------|
| 633L | | US | .020 | .22 | 16.64 | .36 | 1.43 | 2.029 | .034 | 10.51 | .028 | .0210 |
| | | | SI % | | | | | | | | | |
| | | | .22 | | | | | | | | | |

MECHANICAL PROPERTIES

| 1 d o i c r | HB No. | .2YS KSI | UTS KSI | RA % | Elong % 2" |
|-------------------|-----------|-------------|------------|---------|---------------|
| BJ20167 R L | 218.0 | 93.53 | 105.32 | 73.43 | 30.70 |

Oct 10/19

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

Provided by CPA
 www.flowconditioner.com,info@cpacl.ca