

METALLURGICAL TEST REPORT

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

| | | | |
|------------------------|---|--|-------------------------------------|
| Certificate: 828417 03 | Mail To: ALRO METALS SERVICE CENTER ALRO GROUP JACKSON MI 49204- | Ship To: ALRO METALS SERVICE CENTER 6200 PARK OF COMMERCE BLVD. BOCA RATON FL 33487 | Date: 1/20/2023 Page: 1 Of 1 |
| Customer: 0570 004 | | | Steel: 316/316L |
| NAS Order: LR 5279 1 | Red Ratio: 11.8 :1 | Heat Treat Code: 74,487 | Finish: Cold Finish |
| Your Order: BR16592864 | Item Code: 13901700 | | Dia/Thk: 2.5000 in |
| | | | Leg Length: 144.00 in |
| | | | Length: 144.00 in |
| | | | Corrosion: ASTM A262/15 Prac A/E OK |

PRODUCT DESCRIPTION:

Round Bar, Annealed, Smooth Turned, Cold Finished
UNS S31600/S31603, EN 10204 3.1, ASTM A484/22
ASTM A276/17, ASTM A479/21, ASTM A182/22 CHEM ONLY,
ASME SA479/21, ASME SA182/21 CHEM ONLY, GRAIN SIZE = 6-8
AMS 5648/N, 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 A320/22a CL 1 GR B8M
ASME SA193/21 CL 1 GR B8M(EXC PAR 7.3.1), ASTM F899/20
ASTMA193/20 CL 1 GR B8M(EXC PAR 6.2.1), ASTM F899/20

REMARKS:

COMPLIES W/REQUIREMENTS OF DfAR 252.225-7014 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 |
|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| BN24210 | 2146 | | | | | | | | |

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

| NAS Heat | Supplier Heat | CM | C % | CO % | CR % | CU % | MN % | MO % | N % | NI % | P % | S % |
|----------|---------------|----|------|------|-------|------|------|-------|------|-------|------|-------|
| W96V | W96V | US | .026 | .39 | 16.67 | .32 | 1.28 | 2.132 | .038 | 10.61 | .034 | .0245 |
| | | | SI % | | | | | | | | | |
| | | | .31 | | | | | | | | | |

MECHANICAL PROPERTIES

| Id o i c r | HB No. | .2YS KSI | UTS KSI | RA % | Elong % 4D |
|------------------|-----------|-------------|------------|---------|---------------|
| BN24210 R L | 178.0 | 58.44 | 96.23 | 73.98 | 43.50 |

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

HT1095528