

ALLOY PIPING PRODUCTS LLC

Mill Test Report

Date: 08/30/22
Time: 16:40:52
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INSPECTION CERTIFICATE
EN 10204:2004 Type 3.1

To:

Customer Order#:

APP Invoice#:

| Heat Number | Item Number | Item Description | Quantity |
|-------------|-------------|------------------------------------|----------|
| N21C06T | 279179 | NPS 8 SCH XH WPB S B/W LR 90 ELBOW | |

Starting Material:
Pipe Seamless

Order Spec:

| | | | | |
|-------------------|-----------|------|-------------|------|
| Item Spec: | ASTM A234 | 2019 | ASME SA-234 | 2021 |
|-------------------|-----------|------|-------------|------|

Test ID: 1 Heat Analysis **Chemical Composition (wt%)**

| Element | Content | Element | Content | Element | Content |
|---------|---------|---------|---------|------------------------------|---------|
| C | 0.18000 | NI | 0.03000 | CARBON EQUIVALENT | 0.37 |
| MN | 1.09000 | CR | 0.03000 | SUM OF CU+NI+CR+MO | 0.12 |
| P | 0.01000 | MO | 0.00300 | SUM OF CR+MO | 0.03 |
| S | 0.00800 | CU | 0.06000 | SUM OF NB+V | 0.00 |
| SI | 0.20100 | V | 0.00100 | CREQ: CR+(0.19*MO)+(0.40*CU) | 0.05 |
| | | | | MN/C RATIO | 6.06 |

Test Results

Work Order#: 1002785 Load Designation: Test Set: 0

Test ID: 1 **Hardness Test**

| Hardness | Notes |
|-----------------|--|
| 156 HBW(82 HRB) | HARDNESS IS ACCEPTABLE IN ACCORDANCE WITH NACE MR0175/ISO 15156:2015 AND MR0103/ISO 17945:2015 |

Test ID: 1 **Heat Treatment Statement**

HOT FORMED FITTINGS HAVE A FINAL FORMING OPERATION BETWEEN 1150 - 1800°F AND ARE COOLED IN STILL AIR, REQUIRING NO FURTHER (FINAL) HEAT TREATMENT.

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Material supplied in accordance with a Quality Management System certified to ISO 9001:2015. Certificate Number: Q1674

Dimensions and Tolerances in accordance with ASME B16.9 or B16.5, as applicable. Bevels in accordance with ASME B16.25, unless noted otherwise.

Material, when shipped, is free from contamination by mercury, radium, alpha source and low melting elements. Where applicable, welds are 100% radiographed and acceptable to ASME Section VIII - Para UW-51. We hereby certify that the materials listed above have been manufactured, sampled, tested and inspected in accordance with the specifications and grade listed, and have been found to meet the requirements.

A handwritten signature in black ink that reads 'Stacy Freeman'.

QA Supervisor

08/30/22

Date