



INSPECTION CERTIFICATE

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WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Quality Management System is certified
 under ISO 9001. Approval No: (R017)95
 PED 2004/69/EU Annex 1 Clause 4.3
 Cert. No.: 0943/PED/MDU/P0107071

Certificate No: PSI 137631-02
 Date: 25-Aug-2022

Purchaser:

| Order No. | Invoice No. | Starting Material | Specification for Fittings- Seamless | | Specification for Inspection | | | | | | | | | | | | |
|--------------------------|---------------|-------------------------|---|----------------------------------|------------------------------|----------------|---------------------------|------|------|-------|-------|------|---------------------------|-----|---------------|--------------------|-----|
| | | | ASTM A234 -19 WPB / ASME SA234 -21 WPB NACE MR0103-15/ NACE MR0175/ISO 15156-16* | ASME B16.9 - 18 / ASTM A960 - 20 | | | | | | | | | | | | | |
| 71547 | E000017046 | Seamless Pipe | | | | | | | | | | | | | | | |
| Batch No. | Heat No. Pipe | Product & Size | Quantity (pcs) | Visual Examination | Dimensional Inspection | Heat Treatment | Magnetic Particle Testing | | | | | | | | | | |
| A0604 | 2230187B | 10" 45 DEG LR STD ELBOW | 33 | GOOD | GOOD | H | N.A | | | | | | | | | | |
| A1004 | D02-1761V | 4" 90 DEG SR XS ELBOW | 120 | GOOD | GOOD | H | N.A | | | | | | | | | | |
| Chemical Composition (%) | | | | | | | | | | | | | | | | | |
| Specification | C | Si | Mn | P | S | Ni | Cr | Mo | Cu | V | Pb | CE | Tensile Test ¹ | | Hardness (HB) | | |
| | x100 | x100 | x100 | x1000 | x1000 | x100 | x100 | x100 | x100 | x1000 | x100 | x100 | YS (KSI/MPa) | TS | | E ² (%) | |
| Min | - | 10 | 29 | - | - | - | - | - | - | - | - | - | 240 | 415 | - | 1 | 2 |
| Max | 30 | - | 106 | 50 | 58 | 40 | 40 | 15 | 40 | 80 | - | 50 | - | - | - | - | 197 |
| Batch No. | A0604 | 16 | 40 | 13 | 5 | 0 | 4 | 0 | 4 | 2 | <0.10 | 24 | 307 | 421 | 35.8 | 128 | 135 |
| A1004 | 12 | 27 | 112 | 8 | 5 | 2 | 5 | 1 | 5 | 25 | <0.10 | 33 | 378 | 501 | 38.5 | 135 | 140 |

WE CERTIFY THAT ALL PRODUCTS WERE MANUFACTURED, SAMPLED, TESTED, AND INSPECTED SOLELY BY THE MANUFACTURER LISTED AT THE ADDRESS ABOVE IN ACCORDANCE WITH INDICATED SPECIFICATION AND FOUND TO MEET REQUIREMENTS. MATERIAL IS FREE FROM MERCURY AND RADIOACTIVE CONTAMINATION.

TENSILE REQUIREMENT: CONFORMS TO ASTM A370 STANDARD, LONGITUDINAL DIRECTION. GAUGE LENGTH 2" (50mm)

* FULLY KILLED

* HARDNESS ACCORDING TO NACE MR0103/ NACE MR0175/ISO 15156

NOTE:

C: Cold formed at temperature below 620°C

S: Stress relieved in temperature between 565°C - 690°C and cooled in still air.

H: Hot formed in temperature between 620°C - 890°C and cooled in still air.

MT: Magnetic Particle Testing

N: Normalised at 910°C

Q: Heated to 910°C and quenched in water.

T: Temper between 550°C - 650°C.

*1: YS = Yield strength TS = Tensile strength E = Elongation

*2: For thickness above 7.64 mm, the minimum elongation value, E is 30. Else, E = 48l + 15, where l = specimen thickness, in

Manufactured in Malaysia



Quality Assurance Manager

