



MILL TEST CERTIFICATE

PANTECH STEEL INDUSTRIES SDN. BHD. (509731-A)

LOT 13258 & 13259, Jalan Haji Abd. Manan,
Off Jalan Meru, 42200 Kapar, Selangor, Malaysia.

Tel: 603-3393 1633 Fax: 603-3393 1733 E-mail: info@pantechsteel.com



Quality Management System is certified
under ISO 9001, Cert. No.: 10056716
PED 2014/REVU Annex 1 Clause 4.3
Cert. No.: 0038/PED/HAUM/0830070/1

WROUGHT CARBON STEEL BUTTWELDING FITTINGS

INSPECTION DOCUMENT: EN10204:2004 Type 3.1

Certificate No : PSI 133480, Page 8 of 9

Date : 19-Jul-19

Purchaser :

| Order No. | Invoice No. | Total Net Wt. (kg) | Starting Material | Specification for Fittings- Seamless | | | | Specification for Inspection | | | | | | | | | |
|------------------|--------------------------|--------------------|-------------------|--|--------------------|------------------------|----------------|-----------------------------------|------|-------|--------|------|----------------------------|-----|----------------|----------|-----|
| VPI-250519REV2-5 | E 000014537 | 20332.15 | Seamless Pipe | ASTM A234 -18a WPB / ASME SA234 -18a WPB NACE MR0103-12/ NACE MR0175/ISO15156-15* | | | | ASME B16.9 - 18 / ASTM A960 - 14a | | | | | | | | | |
| Heat No. | Product & Size | | Quantity (pcs) | Unit Weight (kg) | Visual Examination | Dimensional Inspection | Heat Treatment | Magnetic Particle Testing | | | | | | | | | |
| TA 222 | 3" XS TEE | | 23 | 3.25 | GOOD | GOOD | C & S | GOOD | | | | | | | | | |
| SE 413 | 3" XS TEE | | 77 | 3.25 | GOOD | GOOD | C & S | GOOD | | | | | | | | | |
| VC 508 | 3" XS TEE | | 200 | 3.25 | GOOD | GOOD | C & S | GOOD | | | | | | | | | |
| VF 105 | 3" x 2" XS RED TEE | | 80 | 2.85 | GOOD | GOOD | C & S | GOOD | | | | | | | | | |
| VE 601 | 4" XS TEE | | 50 | 5.77 | GOOD | GOOD | C & S | GOOD | | | | | | | | | |
| Specification | Chemical Composition (%) | | | | | | | | | | | | Tensile Test ¹¹ | | | Hardness | |
| | C | Si | Mn | P | S | Ni | Cr | Mo | Cu | V | Pb | CE | YS | TS | E ² | (HB) | |
| | x100 | x100 | x100 | x1000 | x1000 | x100 | x100 | x100 | x100 | x1000 | | x100 | (KSI / MPa) | (%) | 1 | 2 | |
| Min | - | 10 | 29 | - | - | - | - | - | - | - | - | - | 240 | 415 | - | - | |
| Max | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | |
| Heat No. | 30 | - | 106 | 50 | 58 | 40 | 40 | 15 | 40 | 80 | - | 50 | - | - | - | 197 | |
| TA 222 | 16 | 29 | 103 | 22 | 13 | 2 | 4 | 1 | 2 | 3 | < 0.10 | 35 | 342 | 520 | 29.2 | 130 | 130 |
| SE 413 | 12 | 17 | 74 | 8 | 4 | 0 | 5 | 1 | 2 | 0 | < 0.10 | 26 | 323 | 447 | 39.2 | 129 | 132 |
| VC 508 | 11 | 15 | 80 | 11 | 3 | 1 | 3 | 1 | 2 | 3 | < 0.10 | 26 | 337 | 432 | 36.0 | 126 | 123 |
| VF 105 | 13 | 14 | 82 | 16 | 3 | 2 | 7 | 2 | 4 | 5 | < 0.10 | 30 | 300 | 433 | 38.2 | 127 | 129 |
| VE 601 | 20 | 21 | 53 | 13 | 11 | 5 | 14 | 2 | 16 | 0 | < 0.10 | 33 | 396 | 518 | 34.4 | 135 | 136 |

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)

* HARDNESS ACCORDING TO NACE MR0103/ NACE MR0175/ISO15156

NOTE:

C: Cold formed at temperature below 620°C

S: Stress relieved in temperature between 595°C - 690°C and cooled in still air.

H: Hot formed in temperature between 845°C - 945°C and cooled in still air.

N: Normalised at 910°C

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

T: Temper between 590°C - 690°C.

¹¹: YS = Yield strength TS=Tensile strength E = Elongation

²: For thickness above 7.94 mm, the minimum elongation value, E is 30. Else, E = 48t + 15, where t = specimen thickness, in Made in Malaysia



Quality Assurance Manager