



|                                         |               |                                    |
|-----------------------------------------|---------------|------------------------------------|
| PIPING SYSTEM PTE LTD                   | DRAWING NO.:  | TUBE-½-4.78-CS-ASTM A106A-20260227 |
| Pipeline Material and Equipment Experts | DRAWING DATE: | 27-Feb-2026                        |

|              |          |             |                                                                            |      |      |
|--------------|----------|-------------|----------------------------------------------------------------------------|------|------|
| INQUIRY NO.: | OR999999 | Description | PIPE-½INCHES-SCH160(4.78MM)-SEAMLESS-BEVELLED ENDS-CARBON STEEL-A106A-ASME | QTY  | UNIT |
| ITEM NO.:    | 225      |             | B36.10-NACE MR0175                                                         | 1000 | M    |

## PIPE&TUBE DRAWING AND DIMENSIONS DATA



| STANDARD |          | ASTM A106A |             | (in mm) |       | kg   |              | kg           |         | m³           |     |     |          |                   |
|----------|----------|------------|-------------|---------|-------|------|--------------|--------------|---------|--------------|-----|-----|----------|-------------------|
| NAME     | MATERIAL | NPS        | OD INCH(ES) | OD      | ID    | WT   | METER WEIGHT | TOTAL WEIGHT | PROCESS | TOTAL VOLUME | HIC | IGC | MTC TYPE | REFERENCE HS CODE |
| TUBE     | CS       | 15         | ½           | 21.30   | 11.74 | 4.78 | 1.95         | 1950.00      | SMLS    | 0.45         | N/A | N/A | MTC3.1   | 7304 1930.00      |

MATERIAL STANDARD: ASTM A106A Chemical element composition content (%)

| COMPONENT | C   | Si  | Mn * | P     | S     | Cr  | Ni  | Cu  | Mo   | V    | REMARK           | CE       |
|-----------|-----|-----|------|-------|-------|-----|-----|-----|------|------|------------------|----------|
| Max       | -   | 0.1 | 0.29 | -     | -     | -   | -   | -   | -    | -    | Cr+Cu+Mo+Ni+V≤1% | CEV≤0.43 |
| Min       | 0.3 | -   | 1.06 | 0.035 | 0.035 | 0.4 | 0.4 | 0.4 | 0.15 | 0.08 |                  | Pcm≤0.25 |

|         |                                                   |       |    |          |   |
|---------|---------------------------------------------------|-------|----|----------|---|
|         | PIPING SYSTEM PTE LTD                             |       |    |          |   |
|         | <a href="https://pipeng.cn">https://pipeng.cn</a> |       |    |          |   |
|         | Tel:+86-17600050068                               |       |    |          |   |
|         | BASED IN SINGAPORE, PIPING THE WORLD              |       |    |          |   |
| DRAWING | HuBiao                                            | AUDIT | 王建 | APPROVAL | 李 |