



# INSPECTION CERTIFICATION

According to EN 10204 3.1

|           |                    |          |             |                    |                |
|-----------|--------------------|----------|-------------|--------------------|----------------|
| Client    | SWP                | Heat No. | 5555        | Date of Delivery   | March 28, 2023 |
| Products  | <b>Super 6 SG2</b> | Test No. | 835555      | Date of Production | March 2023     |
| Order no. | 42156              | Size     | 1.0mm(7313) | Date of Test       | March 25, 2023 |

## All-weld-metal/Chemical analysis(%)-CO2/MIXED GAS

|      |      |      |       |       |       |       |       |       |       |       |      |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| C    | Si   | Mn   | P     | S     | Cr    | Ni    | Mo    | V     | Al    | Ti+Zr | Cu   |
| 0.09 | 0.88 | 1.57 | 0.012 | 0.011 | 0.005 | 0.006 | 0.003 | 0.003 | 0.002 | 0.03  | 0.22 |

## Welding conditions

|              |         |                |                         |                 |     |
|--------------|---------|----------------|-------------------------|-----------------|-----|
| Current type | DC+     | Arc voltage(V) | 22-26                   | Interpass temp. | 150 |
| Current(A)   | 220-260 | Shielding Gas  | EN ISO 14175-C1,M20,M21 |                 |     |

## All-weld-metal mechanical properties

| Tensile test |                |                       |                         |                     |    |               |    |    |         |
|--------------|----------------|-----------------------|-------------------------|---------------------|----|---------------|----|----|---------|
| Test no.     | Heat treatment | Tensile strength(MPa) |                         | Yield Strength(MPa) |    | Elongation(%) |    |    |         |
| 835555       | -              | 548                   |                         | 457                 |    | 27            |    |    |         |
| Impact test  |                |                       |                         |                     |    |               |    |    |         |
| Test no.     | Notch type     | Test temperature      | Shielding Gas           | Impact value(J)     |    |               |    |    | Average |
|              |                |                       |                         | 1                   | 2  | 3             | 4  | 5  |         |
| 835555       | V              | -40                   | M21                     | 93                  | 87 | 88            | 89 | 87 | 88.80   |
| 835555       | V              | -40                   | C1                      | 85                  | 84 | 85            | 86 | 85 | 85.00   |
| Radiography  |                |                       | Bending test(Butt Weld) |                     |    | Hydrogen Test |    |    |         |
| II           |                |                       | OK                      |                     |    | 2.78          |    |    |         |



Standard no.: AWS A5.18 ER70S-6

EN ISO 14341-A-G 42 4C1/M21 3Si1

DIN 8559 SG2

Approvals: TÜV SÜD

CPR Certificate no.:0036-CPR-S 128.2020.001

We hereby certify that the product described above "complies with the term of the order" and conforms with the related international standards"

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DOP Ref.:Super 6 SG2 2017-001

EN13479:2017

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

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