



INSPECTION CERTIFICATION

According to EN 10204 3.1

| | | | | | |
|-----------|--------------------|----------|-------------|--------------------|----------------|
| Client | SWP | Heat No. | 4287 | Date of Delivery | Feb., 6, 2024 |
| Products | Super 6 SG2 | Test No. | 834287 | Date of Production | Jan., 2023 |
| Order no. | 43689 | Size | 1.0mm(7308) | Date of Test | Jan., 16, 2024 |

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 | 1.58 | 0.013 | 0.011 | 0.005 | 0.005 | 0.004 | 0.003 | 0.002 | 0.03 | 0.22 |

Welding conditions

| | | | | | |
|--------------|---------|----------------|-------------------------|------------------|-----|
| Current type | DC+ | Arc voltage(V) | 22-26 | Inter pass 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(%) |
| 834287 | - | 548 | 457 | 28 |

Impact test

| Test no. | Notch type | Test temperature | Shielding Gas | Impact value(J) | | | | | Average |
|----------|------------|------------------|---------------|-----------------|----|----|----|----|---------|
| | | | | 1 | 2 | 3 | 4 | 5 | |
| 834287 | V | -40 | M21 | 98 | 95 | 96 | 94 | 94 | 95.40 |
| 834287 | V | -40 | C1 | 82 | 84 | 83 | 86 | 85 | 84.00 |

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

0036

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DOP Ref.: Super 6 SG2 2017-001

EN13479:2017

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"

Inspecting Department : QC Department

Inspector : **Jeremy Packer**

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