



INSPECTION CERTIFICATE

According to EN 10204 3.1

| | | | | | |
|-----------|-------------------|----------|-------------|--------------------|----------------|
| Client | SWP | Heat No. | 4112 | Date of Delivery | Oct., 31, 2023 |
| Products | SUPER 6SG3 | Test No. | 5434112 | Date of Production | Oct., 2023 |
| Order no. | 43270 | Size | 1.0mm(7322) | Date of Test | Oct., 27, 2023 |

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

| | | | | | | | | | | | |
|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| C | Si | Mn | P | S | Cr | Ni | Mo | V | Al | Ti+Zr | Cu |
| 0.09 | 0.97 | 1.78 | 0.013 | 0.014 | 0.008 | 0.007 | 0.003 | 0.002 | 0.002 | 0.04 | 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(%) | | | |
| 5434112 | - | 547 | | 468 | | 28 | | | |
| Impact test | | | | | | | | | |
| Test no. | Notch type | Test temperature | Shielding Gas | Impact value(J) | | | | | Average |
| | | | | 1 | 2 | 3 | 4 | 5 | |
| 5434112 | V | -40 | M21 | 95 | 94 | 94 | 93 | 95 | 94.20 |
| 5434112 | V | -40 | C1 | 83 | 83 | 83 | 82 | 85 | 83.20 |
| Radiography | | | Bending test(Butt Weld) | | | Hydrogen Test | | | |
| II | | | OK | | | 2.75 | | | |



Standard no.: AWS A5.18 ER70S-6

EN ISO 14341-A-G 42 4C1 4Si1

EN ISO 14341-A-G 46 4M21 4Si1

DIN 8559 SG3

0036

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DOP Ref.: Super SG3 2014-001

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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