



Manufacturer
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Digital Material Passport

| | | | |
|------------|---------------|------------------|--------------|
| ID | DMP-METAL-001 | Version | 1.0.0 |
| Issue Date | 2025-05-14 | Certificate Type | EN 10204 3.1 |

Business Transaction

| Order | | Delivery | |
|----------|------------|-------------|------------|
| Order ID | PO-78901 | Delivery ID | DN-56789 |
| Position | 10 | Position | 1 |
| Date | 2025-04-20 | Date | 2025-05-12 |
| Quantity | 5000 kg | Quantity | 5000 kg |

Product Information

| | |
|-------------------|-------------------------|
| Product Name | Structural Steel S355J2 |
| Batch ID | H-10987-02 |
| Heat Treatment | Normalized |
| Surface Condition | Hot-rolled |
| Production Date | 2025-05-09 |
| Country of Origin | DE |

Product Norms

| | |
|-------------|-------------------|
| Designation | EN 10025-2 (2019) |
| Grade | S355J2 |

Material Designations

| | |
|-------------|--------|
| System | EN |
| Designation | 1.0577 |

Product Shape

| | |
|----------|----------|
| Form | RoundBar |
| Length | 6000 mm |
| Diameter | 50 mm |

Chemical Analysis

| | |
|-----------------|------------|
| Heat Number | H-10987 |
| Melting Process | EAF+LF |
| Casting Date | 2025-05-08 |
| Sample Location | Ladle |

Elements

| Symbol | C | Mn | Si | P | S | N | CEV |
|--------|------|------|------|-------|-------|-------|------|
| Unit | % | % | % | % | % | % | % |
| Min | - | - | - | - | - | - | - |
| Max | 0.2 | 1.6 | 0.5 | 0.025 | 0.02 | 0.009 | 0.45 |
| Actual | 0.18 | 1.45 | 0.25 | 0.018 | 0.012 | 0.006 | 0.42 |

Formula Definitions

CEV = C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15

Mechanical Properties

| Property | Symbol | Actual | Minimum | Maximum | Method | Status |
|---------------------------|--------|---------|---------|---------|---------------|--------|
| Tensile Strength | Rm | 510 MPa | 470 | 630 | EN ISO 6892-1 | - |
| Yield Strength | ReH | 380 MPa | 355 | | EN ISO 6892-1 | - |
| Elongation after fracture | A | 22 % | 20 | | EN ISO 6892-1 | - |

Validation

We hereby certify that the material described above has been manufactured and tested in accordance with the requirements of EN 10204:2004 type 3.1 and the specified standards. The results comply with the requirements.

Validated By

| Name | Title | Department | Date |
|--------------|-------------------|-------------------|------------|
| Johann Weber | Quality Inspector | Quality Assurance | 2025-05-14 |