

The Ultimate MTC Verification Checklist for Contractors

Prepared by SteelPipesFactory.com – Manufacturer, Supplier & Stockist of Certified Steel Products

This downloadable checklist is created for EPC contractors, QA/QC engineers, procurement teams, and project managers to verify **Mill Test Certificates (MTCs)** for steel pipes, valves, sheets, plates, bars, flanges, and pipe fittings before acceptance and installation.

1. Basic Document Verification

- MTC issued as per EN 10204 (confirm 3.1 or 3.2 as per project requirement).
- Manufacturer name, address, and logo clearly mentioned.
- Unique MTC / Heat Certificate number present.
- Issue date and revision (if any) clearly stated.
- Authorized signatory name, signature, and company stamp available.

2. Product Identification & Traceability

- Product description matches Purchase Order and approved drawing.
- Material grade matches ASTM / ASME / EN / DIN / IS specification.
- Heat number / cast number mentioned and traceable.
- Heat number on MTC matches physical marking on material.
- Dimensions, schedule, thickness, OD/ID, class or rating correctly stated.
- Quantity mentioned in MTC matches supplied material.

3. Chemical Composition Verification

- All required elements listed (C, Mn, P, S, Si, Cr, Ni, Mo, etc.).
- Chemical values comply with the applicable material standard.
- Carbon Equivalent (CE) within allowable limit where applicable.
- No restricted element exceeds maximum permissible value.

4. Mechanical Properties Check

- Yield strength meets minimum specified requirement.
- Tensile strength within specified range.
- Elongation percentage meets standard requirement.
- Impact test (Charpy) meets energy and test temperature criteria if required.

5. Manufacturing & Heat Treatment Details

- Manufacturing process mentioned (Seamless / ERW / EFW / SAW / Forged).
- Heat treatment condition specified (N, QT, SR, ANN, etc.).
- Delivery condition matches project and code requirements.

6. Testing & Inspection Records

- Hydrostatic or pressure testing conducted where applicable.
- NDT results (UT, RT, MPI, LPT) mentioned if required.
- Dimensional and visual inspection accepted.

7. Third-Party Inspection (If Applicable)

- Third-party inspection agency clearly mentioned.
- Inspector signature and stamp present.
- 3.2 certificate issued jointly by manufacturer and inspector if required.

8. Common Red Flags – Do Not Accept Material

- Heat number mismatch between material and MTC.
- Chemical or mechanical values outside standard limits.
- Missing manufacturer details, signature, or stamp.
- Tampered, edited, or unverifiable certificates.

Why Contractors Trust SteelPipesFactory.com

- Genuine, traceable MTCs with every supply
- ASTM / ASME / EN / DIN compliant materials
- Ready stock for urgent project requirements
- Trusted supplier for EPCs, refineries, power & infrastructure projects

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