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MTC Quick-Check (7-Point Review)

Seven checks on an EN 10204 3.1 mill test certificate: what to compare, and what to accept.

7 checks · **EN 10204 3.1 / 3.2** · **GB/T 3098.1-2010**

The 7 checks

#	Check	Acceptance criterion
1	Match the heat number on the certificate against the marking on the parts and the package labels.	One heat number per certificate, covering the delivered lot. Mixed-heat packaging needs a certificate per heat.
2	Confirm the issuer is the producing mill, not a trader or distributor.	Signed by an authorized representative independent of the production department (EN 10204 3.1 basis for the issuer).
3	Check the document type against the purchase order.	EN 10204 3.1 or 3.2 with measured values; a declaration of compliance or a COC does not substitute.
4	Compare each element against the limits of the row for the declared material type.	Class 8.8 added-element carbon steel: C 0.15–0.40%, P 0.025% max, S 0.025% max (GB/T 3098.1-2010 Table 2).
5	Compare Rm and RP0.2 against the minimum for the actual diameter band.	Class 8.8, d ≤ 16 mm: Rm 800 MPa min, RP0.2 640 MPa min; class 8.8, d > 16 mm: 830 / 660 MPa (GB/T 3098.1-2010 Table 3).
6	Verify the heat treatment state printed on the certificate.	Quenched and tempered for class 8.8, tempering temperature from 425 °C (GB/T 3098.1-2010 Table 2).
7	Walk the required-field list instead of checking a single field.	Measured chemistry, measured mechanicals, heat number, heat treatment, size and quantity, standard reference all present; the impact test row is required only from d ≥ 16 mm (GB/T 3098.1-2010 Table 3).

References

1. GB/T 3098.1-2010, Table 2: chemical composition limits for class 8.8 added-element carbon steel, including the footnotes on minimum manganese in boron-treated carbon steel below 0.25% C and on boron content.
2. GB/T 3098.1-2010, Table 3: Rm, RP0.2, elongation, reduction of area, hardness and impact energy for class 8.8 in the d ≤ 16 mm and d > 16 mm columns.
3. GB/T 3098.1-2010, clause 5: property class designation — nominal tensile strength and yield ratio.
4. EN 10204:2004, Metallic products — Types of inspection documents: definitions of 2.1, 2.2, 3.1 and 3.2.

Values shown are for class 8.8 carbon and alloy steel fasteners; other classes and material types follow their own rows.

Not a complete IQC or contractual requirement; verify against the PO, product standard and lot scope.

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