What is the difference between TC1 and TC2?

Test or inspection	TC1	TC2	Practical point for P235GH
Cast analysis	Part of verification programme	Part of verification programme	Heat chemistry is checked against Table 2.
Room-temperature tensile test	Part of verification programme	Part of verification programme	ReH/Rp0.2 , Rm and elongation are checked against Table 4.
Flattening or ring tensile test	Per dimensional/test rules	Per dimensional/test rules	The applicable method follows tube dimensions and the inspection schedule.
Drift expanding or ring expanding test	Per dimensional/test rules	Per dimensional/test rules	Used to verify tube formability under the referenced test methods.
Impact verification	Per Table 4 and applicable standard options	Per Table 4 and applicable standard options	In the 2024 edition, impact verification is mandatory for T ≥ 16 mm ; Options 4 and 5 address additional cases.
Leak tightness	Basic requirement	Basic requirement	The permitted verification method follows Clause 8.4.2.1 and Option 7.
Dimensional and visual inspection	Basic requirement	Basic requirement	Dimensions, tolerances, appearance and surface condition must comply with the standard and governing technical requirements.
NDT for longitudinal imperfections	Not part of the base TC1 programme	Part of the TC2 NDT programme	A principal practical distinction of TC2 ; method selection is controlled through Clause 11.11.1 and Option 16.
NDT for transverse imperfections	Not part of the base TC1 programme	Option 8	Applicable to TC2 tubes when required by the governing project specification.
NDT for laminar imperfections	Not part of the base TC1 programme	Option 9	Applicable to TC2 tubes when required by the governing project specification.

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