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# Non-destructive testing of steel tubes —

Part 12:

Automated full peripheral ultrasonic thickness testing of seamless and welded (except submerged arc-welded) steel tubes

Essais non destructifs des tubes en acier —

Partie 12: Contrôle automatisé de l'épaisseur par ultrasons sur toute la circonférence des tubes en acier sans soudure et soudés (sauf à l'arc immergé sous flux en poudre)



Reference number ISO 10893-12:2011(E)

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## Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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ISO 10893-12 was prepared by Technical Committee ISO/TC 17, *Steel*, Subcommittee SC 19, *Technical delivery conditions for steel tubes for pressure purposes*.

This first edition cancels and replaces ISO 10543:1993, which has been technically revised.

ISO 10893 consists of the following parts, under the general title Non-destructive testing of steel tubes:

- Part 1: Automated electromagnetic testing of seamless and welded (except submerged arc-welded) steel tubes for the verification of leaktightness
- Part 2: Automated eddy current testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of imperfections
- Part 3: Automated full peripheral flux leakage testing of seamless and welded (except submerged arc-welded) ferromagnetic steel tubes for the detection of longitudinal and/or transverse imperfections
- Part 4: Liquid penetrant inspection of seamless and welded steel tubes for the detection of surface imperfections
- Part 5: Magnetic particle inspection of seamless and welded ferromagnetic steel tubes for the detection of surface imperfections
- Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections
- Part 7: Digital radiographic testing of the weld seam of welded steel tubes for the detection of imperfections
- Part 8: Automated ultrasonic testing of seamless and welded steel tubes for the detection of laminar imperfections
- Part 9: Automated ultrasonic testing for the detection of laminar imperfections in strip/plate used for the manufacture of welded steel tubes
- Part 10: Automated full peripheral ultrasonic testing of seamless and welded (except submerged arc-welded) steel tubes for the detection of longitudinal and/or transverse imperfections

- Part 11: Automated ultrasonic testing of the weld seam of welded steel tubes for the detection of longitudinal and/or transverse imperfections
- Part 12: Automated full peripheral ultrasonic thickness testing of seamless and welded (except submerged arc-welded) steel tubes