



PD 5500:2009

Specification for unfired fusion welded pressure vessels

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PD 5500:2009

Specification for unfired fusion welded pressure vessels

- Invaluable reference tool for the design and assessment of pressure vessels
- Specifies requirements for materials, design, manufacture, inspection, testing and verification
- Can provide a basis for vessel design and manufacture for Pressure Equipment Directive (PED) compliance
- Contains all amendments, annexes and enquiry cases made during the last three years
- Start of new three-year cycle including updates and new enquiry cases.

Key 2009 revisions

- Revisions to material grouping designations in line with PD CR ISO 15608:2000
- Revisions to calculation of tubesheet ligament efficiency taking account of untubed area
- Improvements to alternative method for loads on nozzles in cylindrical and spherical shells
- Updating of references for new and revised European standards
- Enquiry cases covering external loads on flanges, flexibility of the nozzle-vessel interface and guidance on alternative rules for nozzle reinforcement.

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This major work specifies requirements for the material, design, manufacture, inspection, testing and verification of compliance for unfired fusion welded pressure vessels manufactured from carbon, ferritic alloy and austenitic steels, aluminium, copper and nickel used in a wide range of process and energy industry applications.

The term 'pressure vessel' as used in this specification includes branches up to the point of connection to the connecting piping by bolting, screwing or welding, and supports, brackets or other attachments directly welded to the pressure-containing shell.

PD 5500 is applicable to vessels subject to electrical heating or heated process streams. It excludes, however, those that are subject to direct generated heat or flame impingement from a fired process.

Easy to read and use

- Clean, unmarked text
- Includes all previous corrigenda and amendments
- Annexes and enquiry cases providing guidance on use in domestic and international markets
- FREE binder and labelled dividers to store PD 5500 and amendments (hard copy only)

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PD 5500:2009 supersedes PD 5500:2006 which has been withdrawn.

Three-year subscription

The three-year subscription to PD 5500:2009 includes the provision of all amendments and enquiry cases. Hard copy version comes with a **FREE binder** and dividers.



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Pressure Equipment Directive compliance

This new edition allows vessel owners and operators to continue to support equipment and systems previously designed and manufactured to BS 5500 or PD 5500 in the context of repair, maintenance and replacement. It also allows previous users of BS 5500 and PD 5500, who do not supply into the European Union, to continue to utilize their experience along with existing designs and process procedures derived from the application of a comprehensive and well developed pressure vessel standard.

PD 5500 can provide a basis for vessel design and manufacture when the European Union's Pressure Equipment Directive (PED) is applicable but where the European Standard BS EN 13445 does not provide an appropriate solution for the vessel's materials and design conditions.

Although PD 5500 does not carry the 'deemed to comply' status that is conferred through the use of BS EN 13445, this difference can be accommodated by the manufacturer identifying how the PED's essential safety requirements have been met, utilizing the guidance given in an annex to PD 5500.

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