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Welding — Studs and ceramic ferrules for arc stud welding

*Soudage — Goujons et bagues céramiques pour le soudage à l'arc
des goujons*

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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.

The procedures used to develop this document and those intended for its further maintenance are described in the ISO/IEC Directives, Part 1. In particular the different approval criteria needed for the different types of ISO documents should be noted. This document was drafted in accordance with the editorial rules of the ISO/IEC Directives, Part 2 (see www.iso.org/directives).

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For an explanation on the voluntary nature of standards, the meaning of ISO specific terms and expressions related to conformity assessment, as well as information about ISO's adherence to the World Trade Organization (WTO) principles in the Technical Barriers to Trade (TBT) see the following URL: www.iso.org/iso/foreword.html.

This document was prepared by Technical Committee ISO/TC 44, *Welding and allied processes*, Subcommittee SC 10, *Quality management in the field of welding*.

This third edition cancels and replaces the second edition (ISO 13918:2008), which has been technically revised.

The main changes compared to the previous edition are as follows:

- a) everything according conformity evaluation has been deleted from this document;
- b) fully-threaded stud (FD), virtually fully-threaded stud (MD) and insulation pin/nail (ND) have been introduced;
- c) threaded stud has been renamed to partially threaded stud (PD);
- d) abbreviation *P* for pitch has been introduced;
- e) that a stud may consist of two different materials combined by friction welding has been introduced in [5.3.3.1](#);
- f) value for CEV ($CEV \leq 0,38$) in [Table 2](#) has been changed;
- g) SD3 materials according ISO 15510 have been introduced in [Table 2](#);
- h) PT, UT and IT materials according ISO/TR 15608 have been introduced in [Table 2](#);
- i) where applicable, the dimensions d_3 and h_4 are now for guidance only.
- j) " y_{\min} " has been changed to " $y + 2P$ " in [Table 5](#), column l_2 ;
- k) " $y_{\min} + 1$ " has been changed to " $y + 2P$ " in [Table 6](#), column d_1 ;
- l) " $\alpha \pm 2,5^\circ$ " has been changed to " $\alpha \pm 7^\circ$ " in [Table 6](#), column d_1 ;