| Sr No. | | Details | | ISO 15614-1 | | | | EN 28 | |
|--------|-----|---|--|---|---|--|--|--|--|
| 1 | 1.1 | Scope | This standard specifies how a preliminary welding procedure specification is qualified by welding procedure tests. | | | | This standard defines general rules for the specification ar metallic materials. This standard also refers to several oth specific applications. | | |
| 2 | 2.1 | Qualification | As per Table 1 - Examination and Testing of the Test pieces | | | | As per Table 1 - Examinati | on and Testing of the Test pie | |
| | 2.2 | | The diameter of the parent metal with elongation A > 20 % | The diameter of the former or the inner roller shall be 4t and the bending angle shall be 180° for parent metal with elongation A > 20 %. | | | | EN ISO 15614-1 adopts the same mechanical test as EN 28 former angle has been increased from 120 deg to 180 deg macros. When impact testing is required the minimum the 6mm. | |
| | 2.3 | | EN ISO 15614-1, ma values for material i welds(non heat trea | kes no distinction between n group 1 and 2, is the same ted 280Hv10max. Heat Trea | multi-pass and single pass as that stated in EN 288-: ated 320Hv10max | | | | |
| 3 | 3.1 | Base metal thickness | Both thickness in the joint are given independent approval ranges if they differ. | | | | BUTT JOINT - for parent metal thickness, which for joint the thinner material | | |
| | | | | | Ra | nge of Approv | al | | |
| | | | | | Butt and branch weld thickness and weld deposit | | | | |
| | | | | Test Piece Thickness (t) and also | EN ISC | 015614-1 | EN 2 | 88-3 | |
| | | | | Deposit Thickness for multiple process welds | Single run | Multiple run | Single run | Multiple run | |
| | | | | < 3mm | 0.7t- 1.3t | 0.7t - 2t | 0.8t - 1.1t | t - 2t | |
| | | | | <3 ≤ 12mm | 0.5t (3min) -1.3t | 3mm - 2t | 0.8t - 1.1t | 3mm - 2t | |
| | | | | >12 \$ 100mm | Not Applicable | 0.5t - 2t 50mm - 2t | 0.8t - 1.1t | 0.5t - 2t | |
| | | | | Note:- The upper requirement | range of approval is 12mm and impact testing has not | if there is an impact been carried out | | | |
| | | | | | Range of Approval | | | | |
| | | | | Fillet weld thickness and Throat Thickness EN ISO15614-1 | | | | | |
| | | Test Piece Plate Thickness | | hickness | Throat Thickness | | | | |
| | | | | Thickness (t) | Single and Multiple Run | | Single run | Multiple run | |
| | | | | t ≤ 3mm | 0.7t | - 2t | 0.75 a - 1.5 a | No Restriction | |
| | | | | 3 < t < 30mm | 0.5t (3m | in) - 1.2t | 0.75 a - 1.5 a | No Restriction | |
| | | | | t ≥ 30mm | ≥ 51 | mm | Throat thickness welded, No approval range | No Restriction | |
| | | Fillet welds Qualified by butt welds:- The throat thickness approval ra thickness range will have to be modified | | | | ge is based on the deposit thi o that stated above. | ckness and the plate | | |
| 4 | 4.1 | Base metal diameter | Γ | | Rang | e of Approva | 1 | | |
| | | | | On Diameter | | | | | |
| | | | | | EN ISO 15614-1 | | EN 288-3 | 3 | |
| | | | | Test Piece | 1 | Approval | Test Piece | Approval | |
| | | | | < 25mm OD | 0 |).5D-2D | Pipe/tube <168.3mm OD | 0.5-2D | |
| | | | | >25mm OD | | ≥0.5D | Pipe/tube ≥ 168.3mm OD | ≥0.5D and plates | |
| | | | | Plate | Pipe >150mm in PA or PC Pipe > 500mm All Positions | | Plate | Pipe >500mm | |

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approval of welding procedures for standards as regards detailed rules for

L, except that the bed test minimum illet welds require a minimum of 4 ness has been reduced from 12mm to

tween dissimilar thicknessses is that of