



[CEN/TC 121](#)

Welding

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Secretariat: DIN

**Working programme of CEN/TC 121**

|                  |              |
|------------------|--------------|
| Date of document | 2012-04-10   |
| Expected action  | Next Meeting |
| Due Date         | 2012-06-05   |

**Background**

**CONTENT:**

- living work items structured according to WGs and SCs
- published standards structured according to WGs and SCs
- main stage codes

**Number of Publications and Projects:**

- Publications: 321
- Projects: 53



**Living work items structured according to  
WGs and SCs  
(from the CMC data base)**

**Stage: 2012-04-10**

| WI<br>DOCREF | TITLE | Pres<br>Stage<br>Track<br>VA | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | * | 20.60 | 40.20 | 50.20 | 60.55 | REMARKS |
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|

**CEN/TC 121**

Welding

Status: active Chairperson: Dr. Beate Rickes Secretary: Dr. Bärbel Schambach Secr.: DIN

|                                 |   |  |   |              |                 |                          |                 |                 |  |
|---------------------------------|---|--|---|--------------|-----------------|--------------------------|-----------------|-----------------|--|
| 00121580<br>prEN ISO 2553       | Welding and allied processes - Symbolic representation on drawings - Welded, brazed and soldered joints (ISO/DIS 2553:2011) | 40.70<br>2011-09-08<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult. | Plan<br>Real | 2010-04-23<br>- | 2011-04-07<br>2011-04-07 | 2012-08-13<br>- | 2012-11-15<br>- |  |
| 00121583<br>prEN ISO 5826 rev   | Resistance welding equipment - Transformers - General specifications applicable to all transformers                         | 10.99<br>2010-01-28<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult. | Plan<br>Real | 2010-07-28<br>- | 2011-04-15<br>-          | 2012-05-23<br>- | 2012-08-23<br>- |  |
| 00121631<br>prEN ISO 6847 rev   | Welding consumables - Deposition of a weld metal pad for chemical analysis  | 10.99<br>2012-03-26<br>UAP<br>ISO              | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>Consultant  | Plan<br>Real | 2012-09-26<br>- |                          | 2013-07-12<br>- | 2014-01-13<br>- |  |
| 00121595<br>prEN ISO 8205-3 rev | Water-cooled secondary connection cables for resistance welding - Part 3: Test requirements                                 | 10.99<br>2010-07-01<br>UAP<br>ISO              | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult. | Plan<br>Real | 2011-01-03<br>- | 2011-09-19<br>-          | 2012-10-29<br>- | 2013-01-31<br>- |  |

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                    | TITLE  | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | *            | 20.60           | 40.20                    | 50.20           | 60.55           | REMARKS |
|---------------------------------|--|--|--|--------------|-----------------|--------------------------|-----------------|-----------------|---------|
| 00121596<br>prEN ISO 9312 rev   | Resistance welding<br>equipment - Insulated pins<br>for use in electrode back-ups  | 10.99<br>2010-07-01<br>UAP<br>ISO              | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2011-01-03<br>- | 2011-09-19<br>-          | 2012-10-29<br>- | 2013-01-31<br>- |         |
| 00121610<br>prEN ISO 9453 rev   | Soft solder alloys - Chemical<br>compositions and forms  | 10.99<br>2011-02-07<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2011-08-08<br>- | 2012-04-25<br>-          | 2013-06-03<br>- | 2013-09-05<br>- |         |
| 00121606<br>prEN ISO 9454-1 rev | Soft soldering fluxes -<br>Classification and<br>requirements - Part 1:<br>Classification, labelling and<br>packaging        | 10.99<br>2010-11-24<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2011-05-24<br>- | 2012-02-09<br>-          | 2013-03-18<br>- | 2013-06-20<br>- |         |
| 00121611<br>prEN ISO 9455-5 rev | Soft soldering fluxes - Test<br>methods - Part 5: Copper<br>mirror test  | 10.99<br>2011-02-07<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>Consultant    | Plan<br>Real | 2011-08-08<br>- | 2012-04-25<br>-          | 2013-06-03<br>- | 2013-09-05<br>- |         |
| 00121571<br>prEN ISO 9455-10    | Soft soldering fluxes - Test<br>methods - Part 10: Flux<br>efficacy test, solder spread<br>method (ISO/DIS 9455-<br>10:2011) | 45.99<br>2012-01-13<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2009-10-28<br>- | 2011-04-21<br>2011-04-21 | 2012-04-20<br>- | 2012-07-20<br>- |         |

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Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                     | TITLE   | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult.    | *            | 20.60           | 40.20                    | 50.20           | 60.55           | REMARKS |
|----------------------------------|---|--|---|--------------|-----------------|--------------------------|-----------------|-----------------|---------|
| 00121572<br>prEN ISO 9455-16     | Soft soldering fluxes - Test methods - Part 16: Flux efficacy test, wetting balance method (ISO/DIS 9455-16:2011)   | 40.70<br>2011-09-23<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.             | Plan<br>Real | 2009-10-28<br>- | 2011-04-21<br>2011-04-21 | 2012-08-27<br>- | 2012-11-29<br>- |         |
| 00121573<br>prEN ISO 9455-17 rev | Soft soldering fluxes - Test methods - Part 17: Surface insulation resistance comb test and electrochemical migration test of flux residues                 | 10.99<br>2009-04-28<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.             | Plan<br>Real | 2009-10-28<br>- | 2010-07-14<br>-          | 2011-08-22<br>- | 2011-11-24<br>- |         |
| 00121621<br>prEN ISO 12996       | Mechanical joining - Destructive testing of joints - Specimen dimensions and test procedure for tensile shear testing of single joints (ISO/DIS 12996:2011) | 40.20<br>2011-11-03<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>C7/2011*2011-08-01*Creation of new WIs (TC)<br>No consult.  | Plan<br>Real | 2012-02-13<br>- | 2011-11-03<br>2011-11-03 | 2013-03-11<br>- | 2013-06-13<br>- |         |
| 00121567<br>prEN ISO 12998       | Mechanical joining - Fatigue testing of multi-joint specimens - Specimen dimensions and test procedure (ISO/PWI 12998)                                      | 00.60<br>2009-03-02<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>C17/2009*2009-02-22*Creation of new WIs (TC)<br>No consult. | Plan<br>Real |                 |                          |                 |                 |         |
| 00121C21<br>EN ISO 14271/prAC    | Resistance welding - Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds (ISO 14271:2011)                 | 10.99<br>2012-03-27<br>AC<br>ISO               | No consult.   | Plan<br>Real |                 |                          |                 |                 |         |

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Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                     | TITLE   | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult.               | *            | 20.60           | 40.20           | 50.20           | 60.55           | REMARKS |
|----------------------------------|---|--|--|--------------|-----------------|-----------------|-----------------|-----------------|---------|
| 00121608<br>prEN ISO 15614-7 rev | Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 7: Overlay welding                       | 10.99<br>2010-12-09<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>Consultant                         | Plan<br>Real | 2011-06-09<br>- | 2012-02-24<br>- | 2013-04-01<br>- | 2013-07-03<br>- |         |
| 00121609<br>prEN ISO 15614-8 rev | Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 8: Welding of tubes to tube-plate joints | 10.99<br>2010-12-09<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>Consultant                         | Plan<br>Real | 2011-06-09<br>- | 2012-02-24<br>- | 2013-04-01<br>- | 2013-07-03<br>- |         |
| 00121496<br>prEN ISO 17677-2     | Resistance welding - Vocabulary - Part 2: Flash and butt welding  | 10.99<br>2006-07-25<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.                        | Plan<br>Real | 2007-01-25<br>- | 2007-10-10<br>- | 2008-11-17<br>- | 2009-02-19<br>- |         |
| 00121485<br>prEN ISO 27508       | Resistance welding - Method for the evaluation of the spot weldability of coated and uncoated weld bonded sheet materials                             | 10.99<br>2006-06-12<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>17/2006*2006-05-30*Transfer of CEN WI to ISO (ISO lead)<br>No consult. | Plan<br>Real | 2006-12-12<br>- | 2007-08-28<br>- | 2009-01-05<br>- | 2009-04-06<br>- |         |

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| WI<br>DOCREF | TITLE | Pres<br>Stage<br>Track<br>VA | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | * | 20.60 | 40.20 | 50.20 | 60.55 | REMARKS |
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|

**CEN/TC 121/WG 11**

Stud welding

Status: dormant Secretary: Torsten Diether Secr.: DIN

|                                |   |   |  |      |            |            |            |            |  |
|--------------------------------|---|---|--|------|------------|------------|------------|------------|--|
| 00121607<br>prEN ISO 14555 rev | Welding - Arc stud welding<br>of metallic materials | 10.99<br>2010-12-09<br>ENQ+FV/VA<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult. | Plan | 2011-06-09 | 2012-02-24 | 2013-04-01 | 2013-07-03 |  |
|                                |   |   |  | Real | -          | -          | -          | -          |  |

**CEN/TC 121/WG 16**

Welding of reinforcing steels

Status: dormant Secretary: Torsten Diether Secr.: DIN

**CEN/TC 121/SC 3**

Welding consumables

Status: active Chairperson: Dr. Beate Rickes Secretary: Rüdiger Beck Secr.: DIN

|                            |  |                               |  |      |            |            |            |            |  |
|----------------------------|--|-------------------------------|--|------|------------|------------|------------|------------|--|
| 00121616<br>prEN 14700 rev | Welding consumables -<br>Welding consumables for<br>hard-facing  | 10.99<br>2011-05-19<br>ENQ+FV | CEN/TC 121<br>6/2011*2011-05-<br>05*Revision of<br>ENs/ENVs<br>No consult.     | Plan | 2011-11-21 | 2012-08-06 | 2013-12-26 | 2014-03-26 |  |
|                            |  |                               |  | Real | -          | -          | -          | -          |  |
| 00121620<br>EN ISO 12153   | Welding consumables -<br>Tubular cored electrodes for<br>gas shielded and non-gas<br>shielded metal arc welding of<br>nickel and nickel alloys -<br>Classification (ISO<br>12153:2011) | 50.70<br>2012-03-07<br>UAP    | CEN/TC 121<br>9/2011*2011-05-<br>05*Creation of new WIs<br>(TC)<br>No consult. | Plan | 2011-11-23 |            | 2011-10-06 | 2012-04-07 |  |
|                            |  |                               |  | Real | -          |            | 2011-10-06 | -          |  |

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Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                | TITLE  | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult.  | *            | 20.60           | 40.20                    | 50.20                    | 60.55           | REMARKS |
|-----------------------------|--|--|---|--------------|-----------------|--------------------------|--------------------------|-----------------|---------|
| 00121599<br>FprEN ISO 16834 | Welding consumables - Wire electrodes, wires, rods and deposits for gas shielded arc welding of high strength steels - Classification (ISO/FDIS 16834:2012)                                      | 50.70<br>2012-03-13<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.           | Plan<br>Real | 2011-01-31<br>- | 2010-10-21<br>2010-10-21 | 2012-01-12<br>2012-01-12 | 2012-04-13<br>- |         |
| 00121615<br>FprEN ISO 18275 | Welding consumables - Covered electrodes for manual metal arc welding of high-strength steels - Classification (ISO 18275:2011)  | 50.70<br>2012-03-21<br>UAP                     | CEN/TC 121<br>8/2011*2011-05-05*Revision of ENs/ENVs<br>Consultant      | Plan<br>Real | 2011-11-21<br>- |                          | 2011-10-20<br>2011-10-20 | 2012-04-21<br>- |         |
| 00121600<br>FprEN ISO 21952 | Welding consumables - Wire electrodes, wires, rods and deposits for gas-shielded arc welding of creep-resisting steels - Classification (ISO/FDIS 21952:2011)                                    | 50.70<br>2012-03-13<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.           | Plan<br>Real | 2011-01-31<br>- | 2010-10-21<br>2010-10-21 | 2012-01-12<br>2012-01-12 | 2012-04-13<br>- |         |
| 00121601<br>FprEN ISO 24598 | Welding consumables - Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of creep-resisting steels - Classification (ISO/FDIS 24598:2011) | 50.70<br>2012-03-13<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.           | Plan<br>Real | 2011-01-31<br>- | 2010-10-21<br>2010-10-21 | 2012-01-12<br>2012-01-12 | 2012-04-13<br>- |         |
| 00121617                    | Welding consumables - Covered electrodes for manual metal arc welding of copper and copper alloys - Classification   | 00.60<br>2011-05-19<br>ENQ+FV                  | CEN/TC 121<br>7/2011*2011-05-05*Creation of new WIs (TC)<br>No consult. | Plan<br>Real |                 |                          |                          |                 |         |

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF | TITLE | Pres<br>Stage<br>Track<br>VA | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | * | 20.60 | 40.20 | 50.20 | 60.55 | REMARKS |
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|

**CEN/TC 121/SC 4**

Quality management in the field of welding

Status: active Chairman: Jochen Mußmann Secretary: Holger Zernitz Secr.: DIN

|                                  |   |  |  |              |                 |                          |                 |                 |  |
|----------------------------------|---|--|--|--------------|-----------------|--------------------------|-----------------|-----------------|--|
| 00121579<br>prEN ISO 5817 rev    | Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections | 30.99<br>2012-03-09<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.                        | Plan<br>Real | 2010-02-10<br>- | 2012-05-10<br>-          | 2013-09-16<br>- | 2013-12-18<br>- |  |
| 00121563<br>prEN ISO 8166 rev    | Resistance welding - Procedure for the evaluation of the life of spot welding electrodes using constant machine settings              | 00.60<br>2009-02-19<br>ENQ+FV<br>CEN           | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.                        | Plan<br>Real |                 |                          |                 |                 |  |
| 00121543<br>prEN ISO 12932       | Welding - Laser-arc hybrid welding of steels, nickel and nickel alloys - Quality levels for imperfections (ISO/DIS 12932:2010)        | 40.70<br>2010-09-30<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>C1/2008*2008-10-01*Transfer of CEN WI to ISO (ISO lead)<br>No consult. | Plan<br>Real | 2009-05-06<br>- | 2010-04-29<br>2010-04-29 | 2011-09-05<br>- | 2011-12-07<br>- |  |
| 00121627<br>prEN ISO 14554-1 rev | Quality requirements for welding - Resistance welding of metallic materials - Part 1: Comprehensive quality requirements              | 10.99<br>2012-01-18<br>UAP<br>ISO              | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>Consultant                         | Plan<br>Real | 2012-07-18<br>- |                          | 2013-05-06<br>- | 2013-11-07<br>- |  |

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Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                       | TITLE  | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | *            | 20.60           | 40.20                    | 50.20           | 60.55           | REMARKS |
|------------------------------------|--|--|--|--------------|-----------------|--------------------------|-----------------|-----------------|---------|
| 00121628<br>prEN ISO 14554-2 rev   | Quality requirements for welding - Resistance welding of metallic materials - Part 2: Elementary quality requirements  | 10.99<br>2012-01-18<br>UAP<br>ISO              | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>Consultant           | Plan<br>Real | 2012-07-18<br>- |                          | 2013-05-06<br>- | 2013-11-07<br>- |         |
| 00121551<br>prEN ISO 14732 rev     | Welding personnel - Qualification testing of welding operators for fully mechanized welding and weld setters for fully mechanized welding and automatic welding of metallic materials (ISO/DIS 14732:2012) | 40.70<br>2011-08-25<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>C12/2008*2008-11-14*Revision of ENs/ENVs<br>Consultant   | Plan<br>Real | 2009-11-09<br>- | 2012-03-22<br>2012-03-22 | 2012-07-31<br>- | 2012-11-01<br>- |         |
| 00121626<br>prCEN ISO/TR 15608 rev | Welding - Guidelines for a metallic materials grouping system  | 10.99<br>2012-01-12<br>TCA/VA ISO<br>ISO       | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.          | Plan<br>Real | 2012-07-12<br>- |                          | 2013-04-22<br>- | 2013-08-22<br>- |         |
| 00121544<br>prEN ISO 15609-6       | Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 6: Laser-arc hybrid welding (ISO/DIS 15609-6:2010)                                   | 40.70<br>2010-09-30<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>1/2010*2010-05-06*Transfer of WIs<br>No consult.         | Plan<br>Real | 2009-05-06<br>- | 2010-04-29<br>2010-04-29 | 2011-09-05<br>- | 2011-12-07<br>- |         |

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Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                     | TITLE  | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult.   | *            | 20.60           | 40.20                    | 50.20                    | 60.55           | REMARKS |
|----------------------------------|--|--|--|--------------|-----------------|--------------------------|--------------------------|-----------------|---------|
| 00121531<br>prEN ISO 15614-1 rev | Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1:2004) | 00.60<br>2008-05-22<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>1/2010*2010-05-06*Transfer of WIs<br>Consultant            | Plan<br>Real |                 |                          |                          |                 |         |
| 00121560<br>FprEN ISO 15614-13   | Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 13: Upset (resistance butt) and flash welding (ISO/DIS 15614-13:2010)                           | 50.20<br>2012-03-29<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>1/2010*2010-05-06*Transfer of WIs<br>No consult.           | Plan<br>Real | 2009-08-19<br>- | 2010-11-11<br>2010-11-11 | 2012-03-29<br>2012-03-29 | 2012-06-29<br>- |         |
| 00121604<br>prEN ISO 15614-14    | Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 14: Laser-arc hybrid welding of steels, nickel and nickel alloys                                | 40.70<br>2011-09-15<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>16/2010*2010-05-06*Creation of new WIs (TC)<br>No consult. | Plan<br>Real | 2011-03-09<br>- | 2011-04-14<br>2011-04-14 | 2012-08-20<br>-          | 2012-11-22<br>- |         |
| 00121541<br>prEN ISO 18278-1 rev | Resistance welding - Weldability - Part 1: Assessment of weldability for resistance spot, seam and projection welding of metallic materials  | 10.99<br>2008-10-23<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult.            | Plan<br>Real | 2009-04-23<br>- | 2010-01-08<br>-          | 2011-02-14<br>-          | 2011-05-16<br>- |         |

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| WI<br>DOCREF                     | TITLE   | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | *            | 20.60           | 40.20           | 50.20           | 60.55           | REMARKS |
|----------------------------------|---|--|--|--------------|-----------------|-----------------|-----------------|-----------------|---------|
| 00121542<br>prEN ISO 18278-2 rev | Resistance welding -<br>Weldability - Part 2:<br>Alternative procedures for<br>the assessment of sheet<br>steels for spot welding | 10.99<br>2008-10-23<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of Wis<br>(BT)<br>No consult.   | Plan<br>Real | 2009-04-23<br>- | 2010-01-08<br>- | 2011-02-14<br>- | 2011-05-16<br>- |         |

**CEN/TC 121/SC 4/WG 1**

Welding guidelines

Status: active Convenor: Richard Pargeter Secr.: BSI

**CEN/TC 121/SC 4/WG 4**

Welding guidelines for aluminium

Status: dormant Convenor: P. A. Haines Secr.: BSI

**CEN/TC 121/SC 4/WG 5**

Welding guidelines for stainless steels

Status: dormant Convenor: A. Paton Secr.: BSI

**CEN/TC 121/SC 4/WG 6**

Catalogue of joint design including preparations

Status: dormant Secretary: Holger Zernitz Secr.: DIN

**CEN/TC 121/SC 4/WG 8**

Quality levels for beam welded joints

Status: dormant Secr.: DS

**CEN/TC 121/SC 4/WG 8A**

Recommendations on electron beam welding

Status: dormant Convenor: Dr. Wilfried Behr Secretary: Holger Zernitz Secr.: DIN

**CEN/TC 121/SC 4/WG 13**

Influence of the revision of ISO 9001/9004 with regard to EN 729

Status: dormant Convenor: Professor Detlef von Hofe Secretary: Holger Zernitz Secr.: DIN

**CEN/TC 121/SC 5**

Testing of welds

Status: active Chairman: Jean-Michel Tchilian Secretary: Nathalie Geslin-Levasseur Secr.: AFNOR

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF | TITLE | Pres<br>Stage<br>Track<br>VA | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | * | 20.60 | 40.20 | 50.20 | 60.55 | REMARKS |
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|

**CEN/TC 121/SC 5/WG 1**

## Radiography of welds

Status: active Convenor: Professor Heinrich Heidt Secretary: Martin Sengebusch Secr.: DIN

|                              |   |                                      |  |      |            |            |            |            |                       |
|------------------------------|---|--------------------------------------|--|------|------------|------------|------------|------------|-----------------------|
| 00121548<br>prEN ISO 17636-1 | Non-destructive testing of welds - Radiographic testing - Part 1: X- and gamma-ray techniques with film (ISO/DIS 17636-1:2010)              | 45.99<br>2012-01-27<br>ENQ+FV<br>CEN | CEN/TC 121<br>C29/2011*2011-12-01*Decision to launch the ENQ, FV, UAP<br>No consult. | Plan | 2009-06-01 | 2010-11-04 | 2012-05-14 | 2012-08-16 | Real - 2010-11-04 - - |
| 00121549<br>prEN ISO 17636-2 | Non-destructive testing of welds - Radiographic testing - Part 2: X- and gamma-ray techniques with digital detectors (ISO/DIS 17636-2:2010) | 45.99<br>2012-01-27<br>ENQ+FV<br>CEN | CEN/TC 121<br>C29/2011*2011-12-01*Decision to launch the ENQ, FV, UAP<br>No consult. | Plan | 2009-06-01 | 2010-11-04 | 2012-05-14 | 2012-08-16 | Real - 2010-11-04 - - |

**CEN/TC 121/SC 5/WG 2**

## Ultrasonic testing of welds

Status: active Convenor: Udo Schlengermann Secretary: Martin Sengebusch Secr.: DIN

|                            |   |                                      |   |      |            |            |            |            |                       |
|----------------------------|---|--------------------------------------|---|------|------------|------------|------------|------------|-----------------------|
| 00121555<br>prEN ISO 13588 | Non-destructive testing of welds - Ultrasonic testing - Use of (semi-) automated phased array technology (ISO/DIS 13588:2010) | 45.99<br>2011-12-08<br>ENQ+FV<br>CEN | CEN/TC 121<br>C10/2008*2008-12-18*Creation of new WIs (TC)<br>No consult. | Plan | 2009-07-14 | 2010-11-04 | 2012-03-26 | 2012-06-28 | Real - 2010-11-04 - - |
|----------------------------|---|--------------------------------------|---|------|------------|------------|------------|------------|-----------------------|

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF                | TITLE   | Pres<br>Stage<br>Track<br>VA         | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult.   | *            | 20.60           | 40.20                    | 50.20                    | 60.55           | REMARKS |
|-----------------------------|---|--------------------------------------|--|--------------|-----------------|--------------------------|--------------------------|-----------------|---------|
| 00121550<br>FprEN ISO 22825 | Non-destructive testing of welds - Ultrasonic testing - Testing of welds in austenitic steels and nickel-based alloys (ISO/FDIS 22825:2012) | 50.70<br>2012-04-03<br>ENQ+FV<br>CEN | CEN/TC 121<br>29/2008*2008-06-05*Creation of new WIs (TC)<br>No consult. | Plan<br>Real | 2009-06-01<br>- | 2010-03-18<br>2010-03-18 | 2012-02-02<br>2012-02-02 | 2012-05-02<br>- |         |

**CEN/TC 121/SC 5/WG 3**

Eddy current tests on welds

Status: dormant    Secr.: AFNOR

**CEN/TC 121/SC 5/WG 4**

Liquid penetrate testing of welds

Status: dormant    Convenor: Hans W. Berg    Secretary: Martin Sengebusch    Secr.: DIN

**CEN/TC 121/SC 5/WG 7**

Destructive testing

Status: active    Convenor: Dr. Thomas Kannengießer    Secretary: Holger Zernitz    Secr.: DIN

|                             |   |  |   |              |                 |                          |                          |                 |  |
|-----------------------------|---|--|---|--------------|-----------------|--------------------------|--------------------------|-----------------|--|
| 00121561<br>FprEN ISO 17653 | Resistance welding - Destructive tests on welds in metallic materials - Torsion test of resistance spot welds (ISO/FDIS 17653:2012) | 50.70<br>2012-03-20<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-01-01*Approval of WIs (BT)<br>No consult. | Plan<br>Real | 2009-08-19<br>- | 2011-01-06<br>2011-01-06 | 2012-01-19<br>2012-01-19 | 2012-04-20<br>- |  |
|-----------------------------|---|--|---|--------------|-----------------|--------------------------|--------------------------|-----------------|--|

**CEN/TC 121/SC 7**

Equipment for gas welding, cutting and allied processes

Status: active    Chairman: Professor Kurt Ziegler    Secretary: Stephan Wellendorf    Secr.: DIN

|                            |   |                            |  |              |                 |  |                 |                 |  |
|----------------------------|---|----------------------------|--|--------------|-----------------|--|-----------------|-----------------|--|
| 00121625<br>prCEN/TR 13259 | Gas welding equipment - Industrial manual and machine oxygen-fuel gases blowpipes for flame heating, flame brazing and allied processes | 10.99<br>2011-11-17<br>TCA | CEN/TC 121<br>C8/2011*2011-11-10*Revision of ENs/ENVs<br>No consult. | Plan<br>Real | 2012-05-17<br>- |  | 2013-03-07<br>- | 2013-07-08<br>- |  |
|----------------------------|---|----------------------------|--|--------------|-----------------|--|-----------------|-----------------|--|

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

Project list for selected CEN/TC 121 from CMC data (excluding approved EN etc.)

2012-04-10



| WI<br>DOCREF                  | TITLE  | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | *            | 20.60           | 40.20                    | 50.20           | 60.55           | REMARKS |
|-------------------------------|--|--|--|--------------|-----------------|--------------------------|-----------------|-----------------|---------|
| 00121622<br>EN ISO 2503/prA1  | Gas welding equipment -<br>Pressure regulators and<br>pressure regulators with<br>flow-metering devices for<br>gas cylinders used in<br>welding, cutting and allied<br>processes up to 300 bar (30<br>MPa) | 10.99<br>2011-08-19<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2012-02-20<br>- | 2012-11-05<br>-          | 2013-12-16<br>- | 2014-03-17<br>- |         |
| 00121570<br>EN ISO 5172/prA1  | Gas welding equipment -<br>Blowpipes for gas welding,<br>heating and cutting -<br>Specifications and tests (ISO<br>5172:2006/DAM 1:2011)   | 45.99<br>2012-01-10<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2009-10-28<br>- | 2011-01-13<br>2011-01-13 | 2012-04-17<br>- | 2012-07-18<br>- |         |
| 00121623<br>EN ISO 5172/prA2  | Gas welding equipment -<br>Blowpipes for gas welding,<br>heating and cutting -<br>Specifications and tests   | 10.99<br>2011-08-19<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2012-02-20<br>- | 2012-11-05<br>-          | 2013-12-16<br>- | 2014-03-17<br>- |         |
| 00121624<br>EN ISO 7291/prA1  | Gas welding equipment -<br>Pressure regulators for<br>manifold systems used in<br>welding, cutting and allied<br>processes up to 30 MPa<br>(300 bar)   | 10.99<br>2011-08-19<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2012-02-20<br>- | 2012-11-05<br>-          | 2013-12-16<br>- | 2014-03-17<br>- |         |
| 00121630<br>prEN ISO 9013 rev | Thermal cutting -<br>Classification of thermal cuts<br>- Geometrical product<br>specification and quality<br>tolerances  | 10.99<br>2012-03-09<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>Consultant    | Plan<br>Real | 2012-09-10<br>- | 2013-05-27<br>-          | 2014-07-07<br>- | 2014-10-08<br>- |         |

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF                   | TITLE   | Pres<br>Stage<br>Track<br>VA                   | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | *            | 20.60           | 40.20                    | 50.20           | 60.55           | REMARKS |
|--------------------------------|---|--|--|--------------|-----------------|--------------------------|-----------------|-----------------|---------|
| 00121629<br>EN ISO 9539/prA1   | Gas welding equipment -<br>Materials for equipment used<br>in gas welding, cutting and<br>allied processes  | 30.99<br>2012-03-21<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2012-07-19<br>- | 2012-05-21<br>-          | 2013-09-27<br>- | 2013-12-27<br>- |         |
| 00121582<br>prEN ISO 14114 rev | Gas welding equipment -<br>Acetylene manifold systems<br>for welding, cutting and allied<br>processes - General<br>requirements   | 10.99<br>2010-01-28<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2010-07-28<br>- | 2011-04-15<br>-          | 2012-05-23<br>- | 2012-08-23<br>- |         |
| 00121569<br>prEN ISO 15615     | Gas welding equipment -<br>Acetylene manifold systems<br>for welding, cutting and allied<br>processes - Safety<br>requirements in high-<br>pressure devices<br>(ISO/DIS 15615:2012) | 40.70<br>2011-01-06<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/BT 23/1993*1993-<br>01-01*Approval of WIs<br>(BT)<br>No consult.   | Plan<br>Real | 2009-10-28<br>- | 2012-03-15<br>2012-03-15 | 2011-12-12<br>- | 2012-03-13<br>- |         |

**CEN/TC 121/SC 7/WG 8**

Integrated flowmeter regulators used on cylinders for welding, cutting and allied processes

Status: dormant Convenor: Daniel Beaufils Secr.: AFNOR

**CEN/TC 121/SC 7/WG 9**

Hose assemblies

Status: dormant Convenor: Bodo Rösemann Secretary: Stephan Wellendorf Secr.: DIN

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF | TITLE | Pres<br>Stage<br>Track<br>VA | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | * | 20.60 | 40.20 | 50.20 | 60.55 | REMARKS |
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|

**CEN/TC 121/SC 8**

Brazing

Status: active Chairman: Philip M Roberts Secretary: Bernd Borchert Secr.: BSI

|                             |  |                                      |   |              |                 |                          |                          |                 |  |
|-----------------------------|--|--------------------------------------|---|--------------|-----------------|--------------------------|--------------------------|-----------------|--|
| 00121577<br>prEN 13134 rev  | Brazing - Procedure approval   | 00.60<br>2009-05-08<br>ENQ+FV        | CEN/TC 121<br>26/2009*2009-05-08*Revision of<br>ENs/ENVs<br>No consult. | Plan<br>Real |                 |                          |                          |                 |  |
| 00121537<br>FprEN ISO 13585 | Brazing - Qualification test of<br>brazers and brazing<br>operators (ISO/FDIS<br>13585:2012) | 50.20<br>2012-02-23<br>ENQ+FV<br>CEN | CEN/TC 121<br>34/2008*2008-06-05*Revision of<br>ENs/ENVs<br>Consultant  | Plan<br>Real | 2008-12-19<br>- | 2010-09-30<br>2010-09-30 | 2012-02-23<br>2012-02-23 | 2012-05-23<br>- |  |

**CEN/TC 121/SC 8/WG 1**

Qualification for brazing

Status: active Convenor: Mathias Lundin Secr.: SIS

**CEN/TC 121/SC 9**

Health and safety in welding and allied processes

Status: active Chairman: Eckhard Brügger Secretary: Stephan Wellendorf Secr.: DIN

|                                   |  |                                   |   |              |                 |  |                          |                 |  |
|-----------------------------------|--|-----------------------------------|---|--------------|-----------------|--|--------------------------|-----------------|--|
| 00121526<br>FprCEN ISO/TS 15011-6 | Health and safety in welding<br>and allied processes -<br>Laboratory method for<br>sampling fume and gases -<br>Part 6: Procedure for<br>quantitative determination of<br>fume and gases from<br>resistance spot welding<br>(ISO/DTS 15011-6:2012) | 50.60<br>2011-12-05<br>TCA<br>CEN | CEN/TC 121<br>C3/2011*2011-03-25*Decision to launch a<br>second FV<br>No consult. | Plan<br>Real | 2008-06-11<br>- |  | 2012-01-19<br>2012-01-19 | 2011-02-28<br>- |  |
|-----------------------------------|--|-----------------------------------|---|--------------|-----------------|--|--------------------------|-----------------|--|

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF                 | TITLE   | Pres<br>Stage<br>Track<br>VA         | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult.   | *            | 20.60           | 40.20                    | 50.20           | 60.55           | REMARKS |
|------------------------------|---|--------------------------------------|--|--------------|-----------------|--------------------------|-----------------|-----------------|---------|
| 00121546<br>prEN ISO 15012-1 | Health and safety in welding and allied processes - Equipment for capture and separation of welding fume - Part 1: Requirements for and testing and marking of separation efficiency (ISO/DIS 15012-1:2011) | 40.70<br>2011-09-08<br>ENQ+FV<br>CEN | CEN/TC 121<br>C4/2008*2008-10-01*Creation of new WIs (TC)<br>No consult. | Plan<br>Real | 2009-11-11<br>- | 2011-04-07<br>2011-04-07 | 2012-09-14<br>- | 2012-12-14<br>- |         |
| 00121547<br>prEN ISO 15012-3 | Health and safety in welding and allied processes - Requirements, testing and marking of equipment for air filtration - Part 3: Determination of the capture efficiency of welding fume extraction devices  | 00.60<br>2008-10-01<br>ENQ+FV<br>CEN | CEN/TC 121<br>C5/2008*2008-10-01*Creation of new WIs (TC)<br>No consult. | Plan<br>Real |                 |                          |                 |                 |         |

**CEN/TC 121/SC 9/WG 3**

## Welding curtains

Status: active Convenor: Bodo Rösemann Secretary: Stephan Wellendorf Secr.: DIN

**CEN/TC 121/SC 9/WG 4**

## Testing and marking of equipment for air filtration for welding and allied processes

Status: active Convenor: Arno Goebel Secretary: Stephan Wellendorf Secr.: DIN

|                              |   |  |   |              |                 |                 |                 |                 |  |
|------------------------------|---|--|---|--------------|-----------------|-----------------|-----------------|-----------------|--|
| 00121619<br>prEN ISO 15012-4 | Health and safety in welding and allied processes ? Requirements, testing and marking of equipment for air filtration ? Part 4: Design requirements | 10.99<br>2011-05-23<br>ENQ+FV/VA<br>ISO<br>ISO | CEN/TC 121<br>18/2011*2011-05-05*Creation of new WIs (TC)<br>Consultant | Plan<br>Real | 2011-11-23<br>- | 2012-08-08<br>- | 2013-12-26<br>- | 2014-03-26<br>- |  |
|------------------------------|---|--|---|--------------|-----------------|-----------------|-----------------|-----------------|--|

**CEN/TC 121/SC 9/WG 5**

## Fume analysis data sheets

Status: dormant Convenor: Alan Howe Secretary: Stephan Wellendorf Secr.: DIN

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.

| WI<br>DOCREF | TITLE | Pres<br>Stage<br>Track<br>VA | BT/TC res.<br>Standstill from<br>Order voucher<br>Directive / Consult. | * | 20.60 | 40.20 | 50.20 | 60.55 | REMARKS |
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|
|--------------|-------|------------------------------|--|---|-------|-------|-------|-------|---------|

**CEN/TC 121/SC 9/WG 6**

Procedure for quantitative determination of fume from resistance spot welding

Status: active Convenor: Eric Pezenec Secr.: AFNOR

\* "PLAN" gives the target date for the relevant stage code, "Real" means realized.



**Published standards structured according to  
WGs and SCs  
(from the CMC data base)**

**Stage: 2012-04-10**

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz       |
|---|------------------------|--------------------------------|------------------------|
| <b>CEN/TC 121</b>   |                        |                                |                        |
| <b>Welding</b>  |                        |                                |                        |
| Vorsitz:  | Dr. Beate Rickes       |                                |                        |
| <b>EN 1792</b><br>Welding - Multilingual list of terms for welding and related processes  | 90.93                  | 2003-03-05                     | EN 1792 1997-11-19     |
| <b>EN 12584</b><br>Imperfections in oxyfuel flame cuts, laser beams cuts and plasma cuts - Terminology  | 90.93                  | 1999-03-24                     |                        |
| <b>CEN/TR 14599</b><br>Terms and definitions for welding purposes in relation with EN 1792  | 60.60                  | 2005-06-15                     | CR 14599 2002-10-23    |
| <b>EN 14610</b><br>Welding and allied processes - Definitions of metal welding processes  | 90.93                  | 2004-11-17                     |                        |
| <b>CEN/TR 14633</b><br>Welding - Working positions - Comparison of current international, European and US designations  | 60.60                  | 2003-12-17                     |                        |
| <b>EN 14717</b><br>Welding and allied processes - Environmental check list  | 90.93                  | 2005-04-20                     |                        |
| <b>CEN/TR 15235</b><br>Welding - Methods for assessing imperfections in metallic structures   | 60.60                  | 2005-10-19                     |                        |
| <b>EN ISO 4063</b><br>Welding and allied processes - Nomenclature of processes and reference numbers (ISO 4063:2009, Corrected version 2010-03-01)                | 60.60                  | 2010-12-08                     | EN ISO 4063 2009-08-01 |
| <b>EN ISO 4136</b><br>Destructive tests on welds in metallic materials - Transverse tensile test (ISO 4136:2001)  | 60.60                  | 2011-03-02                     | EN 895 1995-06-28      |
| <b>EN ISO 5178</b><br>Destructive tests on welds in metallic materials - Longitudinal tensile test on weld metal in fusion welded joints (ISO 5178:2001)          | 60.60                  | 2011-03-02                     | EN 876 1995-08-23      |
| <b>EN ISO 5182</b><br>Resistance welding - Materials for electrodes and ancillary equipment (ISO 5182:2008)   | 60.60                  | 2009-04-22                     |                        |
| <b>EN ISO 5183-1</b><br>Resistance welding equipment - Electrode adaptors, male taper 1:10 - Part 1: Conical fixing, taper 1:10 (ISO 5183-1:1998)                 | 90.93                  | 2000-04-19                     | EN 25183-1 1991-11-06  |
| <b>EN ISO 5183-2</b><br>Resistance spot welding - Electrode adaptors, male taper 1:10 - Part 2: Parallel shank fixing for end-thrust electrodes (ISO 5183-2:2000) | 90.93                  | 2001-10-24                     | EN 25183-2 1991-11-06  |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz         |
|--|------------------------|--------------------------------|--------------------------|
| <b>EN ISO 5821</b><br>Resistance welding - Spot welding electrode caps (ISO 5821:2009)   | 60.60                  | 2009-11-25                     | EN 25821 1991-11-06      |
| <b>EN ISO 5826</b><br>Resistance welding equipment - Transformers - General specifications applicable to all transformers (ISO 5826:1999)  | 90.92                  | 2003-05-07                     |                          |
| <b>EN ISO 5828</b><br>Resistance welding equipment - Secondary connecting cables with terminals connected to water-cooled lugs - Dimensions and characteristics (ISO 5828:2001)        | 90.93                  | 2001-03-01                     | EN ISO 5828 1996-08-21   |
| <b>EN ISO 6520-1</b><br>Welding and allied processes - Classification of geometric imperfections in metallic materials - Part 1: Fusion welding (ISO 6520-1:2007)                      | 60.60                  | 2007-07-01                     | EN ISO 6520-1 1998-10-15 |
| <b>EN ISO 6520-2</b><br>Welding and allied processes - Classification of geometric imperfections in metallic materials - Part 2: Welding with pressure (ISO 6520-2:2001)               | 90.93                  | 2001-12-15                     |                          |
| <b>EN ISO 6947</b><br>Welding and allied processes - Welding positions (ISO 6947:2011)   | 60.60                  | 2011-05-15                     | EN ISO 6947 1997-01-22   |
| <b>EN ISO 8205-1</b><br>Water-cooled secondary connection cables for resistance welding - Part 1: Dimensions and requirements for double-conductor connection cables (ISO 8205-1:2002) | 90.93                  | 2002-08-01                     | EN ISO 8205-1 1996-11-13 |
| <b>EN ISO 8205-2</b><br>Water-cooled secondary connection cables for resistance welding - Part 2: Dimensions and requirements for single-conductor connection cables (ISO 8205-2:2002) | 90.93                  | 2002-08-01                     | EN ISO 8205-2 1996-11-13 |
| <b>EN ISO 9015-1</b><br>Destructive tests on welds in metallic materials - Hardness testing - Part 1: Hardness test on arc welded joints (ISO 9015-1:2001)                             | 60.60                  | 2011-03-02                     | EN 1043-1 1995-12-13     |
| <b>EN ISO 9015-2</b><br>Destructive tests on welds in metallic materials - Hardness testing - Part 2: Microhardness testing of welded joints (ISO 9015-2:2003)                         | 60.60                  | 2011-03-02                     | EN 1043-2 1996-10-23     |
| <b>EN ISO 9016</b><br>Destructive tests on welds in metallic materials - Impact tests - Test specimen location, notch orientation and examination (ISO 9016:2001)                      | 60.60                  | 2011-03-02                     | EN 875 1995-08-23        |
| <b>EN ISO 9453</b><br>Soft solder alloys - Chemical compositions and forms (ISO 9453:2006)   | 90.92                  | 2006-10-01                     | EN 29453 1993-11-19      |
| <b>EN ISO 9454-2</b><br>Soft soldering fluxes - Classification and requirements - Part 2: Performance requirements (ISO 9454-2:1998)   | 90.93                  | 2000-04-19                     |                          |
| <b>EN ISO 9455-10</b><br>Soft soldering fluxes - Test methods - Part 10: Flux efficacy test, solder spread method (ISO 9455-10:1998)   | 90.92                  | 2000-04-19                     |                          |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz        |
|---|------------------------|--------------------------------|-------------------------|
| <b>EN ISO 9455-13</b><br>Soft soldering fluxes - Test methods - Part 13: Determination of flux spattering (ISO 9455-13:1996)  | 90.93                  | 1999-04-21                     |                         |
| <b>EN ISO 9455-15</b><br>Soft soldering fluxes - Test methods - Part 15: Copper corrosion test (ISO 9455-15:1996)   | 90.93                  | 1999-04-21                     |                         |
| <b>EN ISO 9455-16</b><br>Soft soldering fluxes - Test methods - Part 16: Flux efficacy tests, wetting balance method (ISO 9455-16:1998)   | 90.92                  | 2001-08-15                     |                         |
| <b>EN ISO 9455-17</b><br>Soft soldering fluxes - Test methods - Part 17: Surface insulation resistance comb test and electrochemical migration test of flux residues (ISO 9455-17:2002)                           | 90.92                  | 2006-06-21                     |                         |
| <b>EN ISO 9692-2/AC</b><br>Welding and allied processes - Joint preparation - Part 2: Submerged arc welding of steels (ISO 9692-2:1998)   | 60.60                  | 1999-07-14                     |                         |
| <b>EN ISO 9692-3/A1</b><br>Welding and allied processes - Recommendations for joint preparation - Part 3: Metal inert gas welding and tungsten inert gas welding of aluminium and its alloys                      | 60.60                  | 2003-12-10                     |                         |
| <b>EN ISO 10447</b><br>Resistance welding - Peel and chisel testing of resistance spot and projection welds (ISO 10447:2006)  | 60.60                  | 2007-06-20                     |                         |
| <b>EN ISO 12224-2</b><br>Flux cored solder wire - Specification and test methods - Part 2: Determination of flux content (ISO 12224-2:1997)   | 90.93                  | 1999-03-24                     |                         |
| <b>EN ISO 12224-3</b><br>Solder wire, solid and flux cored - Specifications and tests methods - Part 3: Wetting balance test method for flux cored solder wire efficacy (ISO 12224-3:2003)                        | 90.93                  | 2003-05-01                     |                         |
| <b>EN ISO 14271</b><br>Resistance welding - Vickers hardness testing (low-force and microhardness) of resistance spot, projection, and seam welds (ISO 14271:2011)  | 60.60                  | 2011-09-01                     | EN ISO 14271 2001-10-24 |
| <b>EN ISO 14373</b><br>Resistance welding - Procedure for spot welding of uncoated and coated low carbon steels (ISO 14373:2006)  | 60.60                  | 2007-06-20                     |                         |
| <b>EN ISO 15609-2/A1</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 2: Gas welding (ISO 15609-2:2003)                               | 60.60                  | 2003-12-10                     |                         |
| <b>EN ISO 15614-4/AC</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 4: Finishing welding of aluminium castings (ISO 15614-4:2005/Cor 1:2007) | 60.60                  | 2007-10-24                     |                         |
| <b>EN ISO 15620</b><br>Welding - Friction welding of metallic materials (ISO 15620:2000)  | 90.93                  | 2000-07-15                     |                         |
| <b>EN ISO 16432</b><br>Resistance welding - Procedure for projection welding of uncoated and coated low carbon steels using embossed projection(s) (ISO 16432:2006)   | 60.60                  | 2007-06-20                     |                         |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz                     |
|--|------------------------|--------------------------------|--------------------------------------|
| <b>EN ISO 16433</b><br>Resistance welding - Procedure for seam welding of uncoated and coated low carbon steels (ISO 16433:2006)   | 60.60                  | 2007-06-20                     |                                      |
| <b>EN ISO 17652-1</b><br>Welding - Test for shop primers in relation to welding and allied processes - Part 1: General requirements (ISO 17652-1:2003)                         | 90.93                  | 2003-05-15                     |                                      |
| <b>EN ISO 17652-2</b><br>Welding - Test for shop primers in relation to welding and allied processes - Part 2: Welding properties of shop primers (ISO 17652-2:2003)           | 90.93                  | 2003-05-15                     |                                      |
| <b>EN ISO 17652-3</b><br>Welding - Test for shop primers in relation to welding and allied processes - Part 3: Thermal cutting (ISO 17652-3:2003)                              | 90.93                  | 2003-05-15                     |                                      |
| <b>EN ISO 17652-4</b><br>Welding - Test for shop primers in relation to welding and allied processes - Part 4: Emission of fumes and gases (ISO 17652-4:2003)                  | 90.93                  | 2003-05-15                     |                                      |
| <b>EN ISO 17657-1</b><br>Resistance welding - Welding current measurement for resistance welding - Part 1: Guidelines for measurement (ISO 17657-1:2005)                       | 60.60                  | 2007-06-20                     |                                      |
| <b>EN ISO 17657-2</b><br>Resistance welding - Welding current measurement for resistance welding - Part 2: Welding current meter with current sensing coil (ISO 17657-2:2005)  | 60.60                  | 2007-06-20                     |                                      |
| <b>EN ISO 17657-3</b><br>Resistance welding - Welding current measurement for resistance welding - Part 3: Current sensing coil (ISO 17657-3:2005)                             | 60.60                  | 2007-06-20                     |                                      |
| <b>EN ISO 17657-4</b><br>Resistance welding - Welding current measurement for resistance welding - Part 4: Calibration system (ISO 17657-4:2005)                               | 60.60                  | 2007-06-20                     |                                      |
| <b>EN ISO 17657-5</b><br>Resistance welding - Welding current measurement for resistance welding - Part 5: Verification of welding current measuring system (ISO 17657-5:2005) | 60.60                  | 2007-06-20                     |                                      |
| <b>EN ISO 17659</b><br>Welding - Multilingual terms for welded joints with illustrations (ISO 17659:2002)  | 90.93                  | 2004-06-23                     | EN 12345 1998-09-23<br>EN 12345/prA1 |
| <b>EN ISO 17677-1</b><br>Resistance welding - Vocabulary - Part 1: Spot, projection and seam welding (ISO 17677-1:2009)  | 60.60                  | 2009-07-01                     |                                      |
| <b>CEN ISO/TS 17845</b><br>Welding and allied processes - Designation system for imperfections (ISO/TS 17845:2004)   | 90.93                  | 2004-08-01                     |                                      |
| <b>EN ISO 18592</b><br>Resistance welding - Destructive testing of welds - Method for the fatigue testing of multi-spot-welded specimens (ISO 18592:2009)                      | 60.60                  | 2009-12-15                     |                                      |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorgesch.) Ersatz          |
|---|------------------------|--------------------------------|-----------------------------|
| <b>CEN ISO/TR 20172</b><br>Welding - Grouping systems for materials - European materials (ISO/TR 20172:2009)  | 60.60                  | 2009-06-15                     | CEN ISO/TR 20172 2006-02-01 |
| <b>CEN ISO/TR 20173</b><br>Welding - Grouping systems for materials - American materials (ISO/TR 20173:2009)  | 60.60                  | 2009-10-01                     | CEN ISO/TR 20173 2005-12-15 |
| <b>EN ISO 22829</b><br>Resistance welding - Transformer-rectifier for welding guns with integrated transformers - Transformer-rectifier units operating at 1000 Hz frequency (ISO 22829:2007) | 60.60                  | 2008-03-26                     |                             |
| <b>EN ISO 25239-1</b><br>Friction stir welding - Aluminium - Part 1: Vocabulary (ISO 25239-1:2011)  | 60.60                  | 2011-12-15                     |                             |
| <b>EN ISO 25239-2</b><br>Friction stir welding - Aluminium - Part 2: Design of weld joints (ISO 25239-2:2011)   | 60.60                  | 2011-12-15                     |                             |
| <b>EN ISO 25239-3</b><br>Friction stir welding - Aluminium - Part 3: Qualification of welding operators (ISO 25239-3:2011)  | 60.60                  | 2011-12-15                     |                             |
| <b>EN ISO 25239-4</b><br>Friction stir welding - Aluminium - Part 4: Specification and qualification of welding procedures (ISO 25239-4:2011)   | 60.60                  | 2011-12-15                     |                             |
| <b>EN ISO 25239-5</b><br>Friction stir welding - Aluminium - Part 5: Quality and inspection requirements (ISO 25239-5:2011)   | 60.60                  | 2011-12-15                     |                             |

**CEN/TC 121/SC 3****Welding consumables**

Vorsitz: Dr. Beate Rickes

|   |       |            |  |
|---|-------|------------|--|
| <b>EN 12074</b><br>Welding consumables - Quality requirements for manufacture, supply and distribution of consumables for welding and allied processes                                  | 90.93 | 2000-04-19 |  |
| <b>EN 12536</b><br>Welding consumables - Rods for gas welding of non alloy and creep-resisting steels - Classification  | 90.93 | 2000-02-16 |  |
| <b>EN 13479</b><br>Welding consumables - General product standard for filler metals and fluxes for fusion welding of metallic materials   | 90.93 | 2004-12-22 |  |
| <b>EN 14532-1</b><br>Welding consumables - Test methods and quality requirements - Part 1: Primary methods and conformity assessment of consumables for steel, nickel and nickel alloys | 90.93 | 2004-11-24 |  |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz       |
|---|------------------------|--------------------------------|------------------------|
| <b>EN 14532-2</b><br>Welding consumables - Test methods and quality requirements - Part 2: Supplementary methods and conformity assessment of consumables for steel, nickel and nickel alloys                               | 90.93                  | 2004-11-24                     |                        |
| <b>EN 14532-3</b><br>Welding consumables - Test methods and quality requirements - Part 3: Conformity assessment of wire electrodes, wires and rods for welding of aluminium alloys   | 90.93                  | 2004-11-24                     |                        |
| <b>EN 14700</b><br>Welding consumables - Welding consumables for hard-facing  | 90.93                  | 2005-05-18                     |                        |
| <b>EN ISO 544</b><br>Welding consumables - Technical delivery conditions for filler materials and fluxes - Type of product, dimensions, tolerances and markings (ISO 544:2011)  | 60.60                  | 2011-03-15                     | EN ISO 544 2003-11-15  |
| <b>EN ISO 636</b><br>Welding consumables - Rods, wires and deposits for tungsten inert gas welding of non-alloy and fine-grain steels - Classification (ISO 636:2004)   | 60.60                  | 2008-05-07                     | EN 1668 1997-08-20     |
| <b>EN ISO 1071</b><br>Welding consumables - Covered electrodes, wires, rods and tubular cored electrodes for fusion welding of cast iron - Classification (ISO 1071:2003)   | 90.93                  | 2003-07-01                     |                        |
| <b>EN ISO 2560</b><br>Welding consumables - Covered electrodes for manual metal arc welding of non-alloy and fine grain steels - Classification (ISO 2560:2009)   | 60.60                  | 2009-10-15                     | EN ISO 2560 2005-12-14 |
| <b>EN ISO 3580</b><br>Welding consumables - Covered electrodes for manual metal arc welding of creep-resisting steels - Classification (ISO 3580:2010)  | 60.60                  | 2011-02-16                     | EN ISO 3580 2008-05-07 |
| <b>EN ISO 3581</b><br>Welding consumables - Covered electrodes for manual metal arc welding of stainless and heat-resisting steels - Classification (ISO 3581:2003+Cor 1:2008+Amd 1:2011)                                   | 60.60                  | 2012-02-08                     | EN 1600 1997-08-20     |
| <b>EN ISO 3690</b><br>Welding and allied processes - Determination of hydrogen content in arc weld metal (ISO 3690:2012)  | 60.60                  | 2012-03-15                     | EN ISO 3690 2000-12-15 |
| <b>EN ISO 6847</b><br>Welding consumables - Deposition of a weld metal pad for chemical analysis (ISO 6847:2000)  | 90.93                  | 2001-09-19                     | EN 26847 1994-02-28    |
| <b>EN ISO 6848</b><br>Arc welding and cutting - Nonconsumable tungsten electrodes - Classification (ISO 6848:2004)  | 90.93                  | 2004-12-01                     | EN 26848 1991-03-13    |
| <b>EN ISO 8249</b><br>Welding - Determination of Ferrite Number (FN) in austenitic and duplex ferritic-austenitic Cr-Ni stainless steel weld metals (ISO 8249:2000)   | 90.93                  | 2000-05-01                     |                        |
| <b>EN ISO 14171</b><br>Welding consumables - Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of non alloy and fine grain steels - Classification (ISO 14171:2010) | 60.60                  | 2010-10-01                     | EN 756 2004-03-03      |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz  |
|---|------------------------|--------------------------------|---|
| <b>EN ISO 14172</b><br>Welding consumables - Covered electrodes for manual metal arc welding of nickel and nickel alloys - Classification (ISO 14172:2008)  | 60.60                  | 2008-10-15                     | EN ISO 14172 2003-11-15<br>EN ISO 14172/AC 2005-12-07<br>EN ISO 14172/AC 2006-10-18 |
| <b>EN ISO 14174</b><br>Welding consumables - Fluxes for submerged arc welding and electroslag welding - Classification (ISO 14174:2012)   | 60.60                  | 2012-02-01                     | EN 760 1996-03-20   |
| <b>EN ISO 14175</b><br>Welding consumables - Gases and gas mixtures for fusion welding and allied processes (ISO 14175:2008)  | 60.60                  | 2008-03-01                     | EN 439 1994-08-21   |
| <b>EN ISO 14341</b><br>Welding consumables - Wire electrodes and weld deposits for gas shielded metal arc welding of non alloy and fine grain steels - Classification (ISO 14341:2010)              | 60.60                  | 2011-01-26                     | EN ISO 14341 2008-05-07   |
| <b>EN ISO 14343</b><br>Welding consumables - Wire electrodes, strip electrodes, wires and rods for arc welding of stainless and heat resisting steels - Classification (ISO 14343:2009)             | 60.60                  | 2009-11-15                     | EN ISO 14343 2007-02-21   |
| <b>EN ISO 14344</b><br>Welding consumables - Procurement of filler materials and fluxes (ISO 14344:2010)  | 60.60                  | 2010-02-15                     | EN ISO 14344 2005-03-02   |
| <b>EN ISO 14372</b><br>Welding consumables - Determination of moisture resistance of manual metal arc welding electrodes by measurement of diffusible hydrogen (ISO 14372:2011)                     | 60.60                  | 2011-07-01                     | EN ISO 14372 2001-10-24   |
| <b>EN ISO 15792-1</b><br>Welding consumables - Test methods - Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys (ISO 15792-1:2000)                          | 60.60                  | 2008-05-07                     | EN 1597-1 1997-07-23  |
| <b>EN ISO 15792-1/A1</b><br>Welding consumables - Test methods - Part 1: Test methods for all-weld metal test specimens in steel, nickel and nickel alloys (ISO 15792-1:2000/Amd 1:2011)            | 60.60                  | 2011-10-01                     |   |
| <b>EN ISO 15792-2</b><br>Welding consumables - Test methods - Part 2: Preparation of single-run and two-run technique test specimens in steel (ISO 15792-2:2000)                                    | 60.60                  | 2008-05-07                     | EN 1597-2 1997-07-23  |
| <b>EN ISO 15792-3</b><br>Welding consumables - Test methods - Part 3: Classification testing of positional capacity and root penetration of welding consumables in a fillet weld (ISO 15792-3:2011) | 60.60                  | 2011-05-15                     | EN ISO 15792-3 2008-05-07   |
| <b>EN ISO 16834</b><br>Welding consumables - Wire electrodes, wires, rods and deposits for gas-shielded arc welding of high strength steels - Classification (ISO 16834:2006)                       | 60.60                  | 2007-02-21                     | EN 12534 1999-08-18   |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz                                      |
|--|------------------------|--------------------------------|---|
| <b>EN ISO 17632</b><br>Welding consumables - Tubular cored electrodes for gas shielded and non-gas shielded metal arc welding of non-alloy and fine grain steels - Classification (ISO 17632:2004)                 | 60.60                  | 2008-05-07                     | EN 758 1997-02-19                                     |
| <b>EN ISO 17633</b><br>Welding consumables - Tubular cored electrodes and rods for gas shielded and non-gas shielded metal arc welding of stainless and heat-resisting steels - Classification (ISO 17633:2010)    | 60.60                  | 2010-11-01                     | EN ISO 17633 2006-04-05                               |
| <b>EN ISO 17634</b><br>Welding consumables - Tubular cored electrodes for gas shielded metal arc welding of creep-resisting steels - Classification (ISO 17634:2004)   | 90.93                  | 2006-04-05                     | EN 12071 1999-10-20                                   |
| <b>EN ISO 18273</b><br>Welding consumables - Wire electrodes, wires and rods for welding of aluminium and aluminium alloys - Classification (ISO 18273:2004)   | 90.93                  | 2004-03-01                     |   |
| <b>EN ISO 18274</b><br>Welding consumables - Solid wire electrodes, solid strip electrodes, solid wires and solid rods for fusion welding of nickel and nickel alloys - Classification (ISO 18274:2010)            | 60.60                  | 2010-12-15                     | EN ISO 18274 2004-03-01<br>EN ISO 18274/AC 2007-02-28 |
| <b>EN ISO 18276</b><br>Welding consumables - Tubular cored electrodes for gas-shielded and non-gas-shielded metal arc welding of high-strength steels - Classification (ISO 18276:2005)                            | 60.60                  | 2006-06-21                     | EN 12535 2000-02-16                                   |
| <b>EN ISO 21952</b><br>Welding consumables - Wire electrodes, wires, rods and deposits for gas-shielded arc welding of creep-resisting steel - Classification (ISO 21952:2007)                                     | 60.60                  | 2007-11-15                     | EN 12070 1999-10-20                                   |
| <b>EN ISO 24034</b><br>Welding consumables - Solid wire electrodes, solid wires and rods for fusion welding of titanium and titanium alloys - Classification (ISO/FDIS 24034:2010)                                 | 60.60                  | 2010-10-01                     | EN ISO 24034 2005-10-01<br>EN ISO 24034/A1 2008-06-15 |
| <b>EN ISO 24373</b><br>Welding consumables - Solid wires and rods for fusion welding of copper and copper alloys - Classification (ISO 24373:2008)   | 60.60                  | 2009-04-22                     | EN 14640 2005-04-20                                   |
| <b>EN ISO 24598</b><br>Welding consumables - Solid wire electrodes, tubular cored electrodes and electrode/flux combinations for submerged arc welding of creep-resisting steels - Classification (ISO 24598:2007) | 60.60                  | 2007-12-19                     |   |
| <b>EN ISO 26304</b><br>Welding consumables - Solid wire electrodes, tubular cored electrodes and electrode-flux combinations for submerged arc welding of high strength steels - Classification (ISO 26304:2011)   | 60.60                  | 2011-08-01                     | EN ISO 26304 2009-08-19                               |

| Bezeichnung<br>Titel | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz |
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**CEN/TC 121/SC 4****Quality management in the field of welding**

Vorsitz: Dipl.-Ing. Jochen Mußmann

|  |       |            |  |
|--|-------|------------|--|
| <b>EN 287-1</b><br>Qualification test of welders - Fusion welding - Part 1: Steels   | 60.60 | 2011-07-13 | EN 287-1 2004-03-03<br>EN 287-1/AC 2004-08-25<br>EN 287-1/A2 2006-03-15    |
| <b>EN 1011-1</b><br>Welding - Recommendations for welding of metallic materials - Part 1: General guidance for arc welding                 | 60.60 | 2009-03-04 | EN 1011-1 1998-02-18<br>EN 1011-1/A1 2002-05-29<br>EN 1011-1/A2 2003-12-10 |
| <b>EN 1011-2</b><br>Welding - Recommendations for welding of metallic materials - Part 2: Arc welding of ferritic steels                   | 90.93 | 2001-01-24 |  |
| <b>EN 1011-2/A1</b><br>Welding - Recommendations for welding of metallic materials - Part 2: Arc welding of ferritic steels                | 60.60 | 2003-12-10 |  |
| <b>EN 1011-3</b><br>Welding - Recommendations for welding of metallic materials - Part 3: Arc welding of stainless steels                  | 90.93 | 2000-09-20 |  |
| <b>EN 1011-3/A1</b><br>Welding - Recommendations for welding of metallic materials - Part 3: Arc welding of stainless steels               | 60.60 | 2003-12-10 |  |
| <b>EN 1011-4</b><br>Welding - Recommendations for welding of metallic materials - Part 4: Arc welding of aluminium and aluminium alloys    | 90.93 | 2000-09-20 |  |
| <b>EN 1011-4/A1</b><br>Welding - Recommendations for welding of metallic materials - Part 4: Arc welding of aluminium and aluminium alloys | 60.60 | 2003-12-10 |  |
| <b>EN 1011-5</b><br>Welding - Recommendations for welding of metallic materials - Part 5: Welding of clad steel                            | 90.93 | 2003-04-23 |  |
| <b>EN 1011-6</b><br>Welding - Recommendation for welding of metallic materials - Part 6: Laser beam welding                                | 90.93 | 2005-12-21 |  |
| <b>EN 1011-7</b><br>Welding - Recommendations for welding of metallic materials - Part 7: Electron beam welding                            | 90.93 | 2004-07-28 |  |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz  |
|---|------------------------|--------------------------------|---|
| <b>EN 1708-1</b><br>Welding - Basic welded joint details in steel - Part 1: Pressurized components  | 60.60                  | 2010-01-13                     | EN 1708-1 1999-03-10<br>EN 1708-1/A1 2003-12-10                         |
| <b>EN 1708-2</b><br>Welding - Basic weld joint details in steel - Part 2: Non internal pressurized components   | 90.93                  | 2000-07-19                     |   |
| <b>EN 1708-3</b><br>Welding - Basic weld joint details in steel - Part 3: Clad, buttered and lined pressurized components   | 60.60                  | 2012-03-07                     |   |
| <b>EN ISO 3834-1</b><br>Quality requirements for fusion welding of metallic materials - Part 1: Criteria for the selection of the appropriate level of quality requirements (ISO 3834-1:2005)   | 60.60                  | 2005-12-15                     | EN 729-1 1994-09-30   |
| <b>EN ISO 3834-2</b><br>Quality requirements for fusion welding of metallic materials - Part 2: Comprehensive quality requirements (ISO 3834-2:2005)  | 60.60                  | 2005-12-15                     | EN 729-2 1994-09-30   |
| <b>EN ISO 3834-3</b><br>Quality requirements for fusion welding of metallic materials - Part 3: Standard quality requirements (ISO 3834-3:2005)   | 60.60                  | 2005-12-15                     | EN 729-3 1994-09-30   |
| <b>EN ISO 3834-4</b><br>Quality requirements for fusion welding of metallic materials - Part 4: Elementary quality requirements (ISO 3834-4:2005)   | 60.60                  | 2005-12-15                     | EN 729-4 1994-09-30   |
| <b>EN ISO 3834-5</b><br>Quality requirements for fusion welding of metallic materials - Part 5: Documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834-2, ISO 3834-3 or ISO 3834-4 (ISO 3834-5:2005)               | 60.60                  | 2005-12-15                     |   |
| <b>EN ISO 3834-5/AC</b><br>Quality requirements for fusion welding of metallic materials - Part 5: Documents with which it is necessary to conform to claim conformity to the quality requirements of ISO 3834-2, ISO 3834-3 or ISO 3834-4 (ISO 3834-5:2005/Cor 1:2007) | 60.60                  | 2008-10-01                     |   |
| <b>CEN ISO/TR 3834-6</b><br>Quality requirements for fusion welding of metallic materials - Part 6: Guidelines on implementing ISO 3834 (ISO/TR 3834-6:2007)  | 60.60                  | 2007-02-15                     | CR 13576 1999-04-21   |
| <b>EN ISO 5817</b><br>Welding - Fusion-welded joints in steel, nickel, titanium and their alloys (beam welding excluded) - Quality levels for imperfections (ISO 5817:2003, corrected version:2005, including Technical Corrigendum 1:2006)                             | 90.92                  | 2007-08-01                     | EN ISO 5817 2003-10-01<br>EN ISO 5817/AC 2006-04-12<br>EN ISO 5817/prA1 |
| <b>EN ISO 8166</b><br>Resistance welding - Procedure for the evaluation of the life of spot welding electrodes using constant machine settings (ISO 8166:2003)  | 90.92                  | 2003-06-01                     |   |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz                              |
|--|------------------------|--------------------------------|---|
| <b>EN ISO 9606-2</b><br>Qualification test of welders - Fusion welding - Part 2: Aluminium and aluminium alloys (ISO 9606-2:2004)  | 90.93                  | 2004-12-15                     | EN 287-2 1992-02-26<br>EN 287-2/A1 1997-05-28 |
| <b>EN ISO 9606-3</b><br>Approval testing of welders - Fusion welding - Part 3: Copper and copper alloys (ISO 9606-3:1999)  | 90.93                  | 1999-04-01                     |   |
| <b>EN ISO 9606-4</b><br>Approval testing of welders - Fusion welding - Part 4: Nickel and nickel alloys (ISO 9606-4:1999)  | 90.93                  | 1999-04-01                     |   |
| <b>EN ISO 9606-5</b><br>Approval testing of welders - Fusion welding - Part 5: Titanium and titanium alloys, zirconium and zirconium alloys (ISO 9606-5:2000)  | 90.93                  | 2000-02-01                     |   |
| <b>EN ISO 9692-1</b><br>Welding and allied processes - Recommendations for joint preparation - Part 1: Manual metal-arc welding, gas-shielded metal-arc welding, gas welding, TIG welding and beam welding of steels (ISO 9692-1:2003) | 90.93                  | 2003-12-15                     |   |
| <b>EN ISO 9692-3</b><br>Welding and allied processes - Recommendations for joint preparation - Part 3: Metal inert gas welding and tungsten inert gas welding of aluminium and its alloys (ISO 9692-3:2000)                            | 90.93                  | 2001-03-21                     |   |
| <b>EN ISO 9692-4</b><br>Welding and allied processes - Recommendations for joint preparation - Part 4: Clad steels (ISO 9692-4:2003)   | 90.93                  | 2003-08-15                     |   |
| <b>EN ISO 10042</b><br>Welding - Arc-welded joints in aluminium and its alloys - Quality levels for imperfections (ISO 10042:2005)   | 60.60                  | 2005-11-15                     | EN 30042 1994-05-15                           |
| <b>EN ISO 10042/AC</b><br>Welding - Arc-welded joints in aluminium and its alloys - Quality levels for imperfections (ISO 10042:2005/Cor.1:2006)   | 60.60                  | 2006-04-12                     |   |
| <b>EN ISO 13919-2</b><br>Welding - Electron and laser beam welded joints - Guidance on quality levels for imperfections - Part 2: Aluminium and its weldable alloys (ISO 13919-2:2001)   | 90.93                  | 2001-09-15                     |   |
| <b>EN ISO 13919-2/A1</b><br>Welding - Electron and laser beam welded joints - Guidance on quality levels for imperfections - Part 2: Aluminium and its weldable alloys (ISO 13919-2:2003)  | 60.60                  | 2003-12-10                     |   |
| <b>EN ISO 14327</b><br>Resistance welding - Procedures for determining the weldability lobe for resistance spot, projection and seam welding (ISO 14327:2004)  | 90.93                  | 2004-04-01                     |   |
| <b>EN ISO 14554-1</b><br>Quality requirements for welding - Resistance welding of metallic materials - Part 1: Comprehensive quality requirements (ISO 14544-1:2000)   | 90.93                  | 2000-04-01                     |   |
| <b>EN ISO 14554-2</b><br>Quality requirements for welding - Resistance welding of metallic materials - Part 2: Elementary quality requirements (ISO 14554-2:2000)  | 90.93                  | 2000-04-01                     |   |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz                              |
|---|------------------------|--------------------------------|---|
| <b>EN ISO 14731</b><br>Welding coordination - Tasks and responsibilities (ISO 14731:2006)   | 60.60                  | 2006-10-01                     | EN 719 1994-06-10                             |
| <b>EN ISO 14744-1</b><br>Welding - Acceptance inspection of electron beam welding machines - Part 1: Principles and acceptance conditions (ISO 14744-1:2008)                                | 60.60                  | 2008-05-01                     | EN ISO 14744-1 2000-04-15                     |
| <b>EN ISO 14744-2</b><br>Welding - Acceptance inspection of electron beam welding machines - Part 2: Measurement of accelerating voltage characteristics (ISO 14744-2:2000)                 | 90.93                  | 2000-04-15                     |   |
| <b>EN ISO 14744-3</b><br>Welding - Acceptance inspection of electron beam welding machines - Part 3: Measurement of beam current characteristics (ISO 14744-3:2000)                         | 90.93                  | 2000-04-15                     |   |
| <b>EN ISO 14744-4</b><br>Welding - Acceptance inspection of electron beam welding machines - Part 4: Measurement of welding speed (ISO 14744-4:2000)  | 90.93                  | 2000-04-15                     |   |
| <b>EN ISO 14744-5</b><br>Welding - Acceptance inspection of electron beam welding machines - Part 5: Measurement of run-out accuracy (ISO 14744-5:2000)                                     | 90.93                  | 2000-04-15                     |   |
| <b>EN ISO 14744-6</b><br>Welding - Acceptance inspection of electron beam welding machines - Part 6: Measurement of stability of spot position (ISO 14744-6:2000)                           | 90.93                  | 2000-04-15                     |   |
| <b>EN ISO 15607</b><br>Specification and qualification of welding procedures for metallic materials - General rules (ISO 15607:2003)  | 90.93                  | 2003-12-15                     | EN 288-1 1992-02-26<br>EN 288-1/A1 1997-06-18 |
| <b>CEN ISO/TR 15608</b><br>Welding - Guidelines for a metallic materials grouping system (ISO/TR 15608:2005)  | 60.60                  | 2005-10-15                     | CR ISO 15608 2000-04-01                       |
| <b>EN ISO 15609-1</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 1: Arc welding (ISO 15609-1:2004)            | 90.93                  | 2004-10-15                     | EN 288-2 1992-02-26<br>EN 288-2/A1 1997-06-18 |
| <b>EN ISO 15609-2</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 2: Gas welding (ISO 15609-2:2001)            | 90.93                  | 2001-09-01                     |   |
| <b>EN ISO 15609-3</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedures specification - Part 3: Electron beam welding (ISO 15609-3:2004) | 90.93                  | 2004-08-01                     | EN ISO 9956-10 1996-10-01                     |
| <b>EN ISO 15609-4</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 4: Laser beam welding (ISO 15609-4:2009)     | 60.60                  | 2009-05-15                     | EN ISO 15609-4 2004-08-01                     |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz  |
|---|------------------------|--------------------------------|---|
| <b>EN ISO 15609-5</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure specification - Part 5: Resistance welding (ISO 15609-5:2011, Corrected version 2011-12-01)   | 60.60                  | 2011-10-01                     | EN ISO 15609-5 2004-08-01   |
| <b>EN ISO 15610</b><br>Specification and qualification of welding procedures for metallic materials - Qualification based on tested welding consumables (ISO 15610:2003)  | 90.93                  | 2003-11-15                     | EN 288-5 1994-08-21   |
| <b>EN ISO 15611</b><br>Specification and qualification of welding procedures for metallic materials - Qualification based on previous welding experience (ISO 15611:2003)   | 90.93                  | 2003-12-15                     | EN 288-6 1994-08-21   |
| <b>EN ISO 15612</b><br>Specification and qualification of welding procedures for metallic materials - Qualification by adoption of a standard welding procedure (ISO 15612:2004)  | 90.93                  | 2004-08-01                     | EN 288-7 1995-05-31   |
| <b>EN ISO 15613</b><br>Specification and qualification of welding procedures for metallic materials - Qualification based on pre-production welding test (ISO 15613:2004)   | 90.93                  | 2004-06-15                     | EN 288-8 1995-05-31   |
| <b>EN ISO 15614-1</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys (ISO 15614-1:2004)                             | 90.92                  | 2004-06-15                     | EN 288-3 1992-02-26<br>EN 288-3/A1 1997-06-18                           |
| <b>EN ISO 15614-1/A1</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys - Amendment 1 (ISO 15614-1:2004/Amd 1:2008) | 60.60                  | 2008-02-15                     |   |
| <b>EN ISO 15614-1/A2</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 1: Arc and gas welding of steels and arc welding of nickel and nickel alloys - Amendment 2 (ISO 15614-1:2004/Amd 2:2012) | 60.60                  | 2012-02-15                     |   |
| <b>EN ISO 15614-2</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 2: Arc welding of aluminium and its alloys (ISO 15614-2:2005)   | 60.60                  | 2005-04-15                     | EN 288-4 1992-08-31<br>EN 288-4/A1 1997-06-18<br>EN 288-4/AC 1993-03-10 |
| <b>EN ISO 15614-2/AC</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 2: Arc welding of aluminium and its alloys (ISO 15614-2:2005/Cor 2:2009)   | 60.60                  | 2009-04-29                     |   |
| <b>EN ISO 15614-3</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 3: Fusion welding of non-alloyed and low-alloyed cast irons (ISO 15614-3:2008)  | 60.60                  | 2008-03-15                     |   |
| <b>EN ISO 15614-4</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 4: Finishing welding of aluminium castings (ISO 15614-4:2005)   | 60.60                  | 2005-07-01                     |   |
| <b>EN ISO 15614-5</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 5: Arc welding of titanium, zirconium and their alloys (ISO 15614-5:2004)   | 90.93                  | 2004-03-15                     |   |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz        |
|--|------------------------|--------------------------------|-------------------------|
| <b>EN ISO 15614-6</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 6: Arc and gas welding of copper and its alloys (ISO 15614-6:2006)                 | 60.60                  | 2006-04-01                     |                         |
| <b>EN ISO 15614-7</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 7: Overlay welding (ISO 15614-7:2007)  | 60.60                  | 2007-06-15                     |                         |
| <b>EN ISO 15614-8</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 8: Welding of tubes to tube-plate joints (ISO 15614-8:2002)                        | 90.93                  | 2002-04-01                     |                         |
| <b>EN ISO 15614-10</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 10: Hyperbaric dry welding (ISO 15614-10:2005)                                    | 90.93                  | 2005-02-15                     |                         |
| <b>EN ISO 15614-11</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 11: Electron and laser beam welding (ISO 15614-11:2002)                           | 90.93                  | 2002-03-15                     |                         |
| <b>EN ISO 15614-12</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 12: Spot, seam and projection welding (ISO 15614-12:2004)                         | 90.93                  | 2004-08-01                     |                         |
| <b>EN ISO 15614-13</b><br>Specification and qualification of welding procedures for metallic materials - Welding procedure test - Part 13: Resistance butt and flash welding (ISO 15614-13:2005)                         | 90.92                  | 2005-02-15                     |                         |
| <b>EN ISO 15616-1</b><br>Acceptance tests for CO <sub>2</sub> -laser beam machines for high quality welding and cutting - Part 1: General principles, acceptance conditions (ISO 15616-1:2003)                           | 90.93                  | 2003-03-01                     |                         |
| <b>EN ISO 15616-2</b><br>Acceptance tests for CO <sub>2</sub> -laser beam machines for high quality welding and cutting - Part 2: Measurement of static and dynamic accuracy (ISO 15616-2:2003)                          | 90.93                  | 2003-03-01                     |                         |
| <b>EN ISO 15616-3</b><br>Acceptance tests for CO <sub>2</sub> -laser beam machines for high quality welding and cutting - Part 3: Calibration of instruments for measurement of gas flow and pressure (ISO 15616-3:2003) | 90.93                  | 2003-03-01                     |                         |
| <b>EN ISO 15618-1</b><br>Qualification testing of welders for under-water welding - Part 1: Diver-welders for hyperbaric wet welding (ISO 15618-1:2001)  | 90.93                  | 2001-12-15                     |                         |
| <b>EN ISO 15618-2</b><br>Qualification testing of welders for under-water welding - Part 2: Diver-welders and welding operators for hyperbaric dry welding (ISO 15618-2:2001)  | 90.93                  | 2001-12-15                     |                         |
| <b>EN ISO 17662</b><br>Welding - Calibration, verification and validation of equipment used for welding, including ancillary activities (ISO 17662:2005)   | 60.60                  | 2005-03-15                     |                         |
| <b>EN ISO 17663</b><br>Welding - Quality requirements for heat treatment in connection with welding and allied processes (ISO 17663:2009)  | 60.60                  | 2009-06-01                     | CR ISO 17663 2001-03-01 |
| <b>CEN ISO/TR 17844</b><br>Welding - Comparison of standardised methods for the avoidance of cold cracks (ISO/TR 17844:2004)   | 60.60                  | 2004-09-15                     |                         |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz |
|---|------------------------|--------------------------------|------------------|
| <b>EN ISO 18278-1</b><br>Resistance welding - Weldability - Part 1: Assessment of weldability for resistance spot, seam and projection welding of metallic materials (ISO 18278-1:2004) | 90.92                  | 2004-11-01                     |                  |
| <b>EN ISO 18278-2</b><br>Resistance welding - Weldability - Part 2: Alternative procedures for the assessment of sheet steels for spot welding (ISO 18278-2:2004)                       | 90.92                  | 2004-11-01                     |                  |
| <b>EN ISO 18594</b><br>Resistance spot-, projection- and seam-welding - Method for determining the transition resistance on aluminium and steel material (ISO 18594:2007)               | 60.60                  | 2007-03-01                     |                  |
| <b>EN ISO 18595</b><br>Resistance welding - Spot welding of aluminium and aluminium alloys - Weldability, welding and testing (ISO 18595:2007)  | 60.60                  | 2007-09-01                     |                  |
| <b>CEN ISO/TR 20174</b><br>Welding - Grouping systems for materials - Japanese materials (ISO/TR 20174:2005)  | 60.60                  | 2005-12-15                     |                  |
| <b>EN ISO 22827-1</b><br>Acceptance tests for Nd:YAG laser beam welding machines - Machines with optical fibre delivery - Part 1: Laser assembly (ISO 22827-1:2005)                     | 60.60                  | 2005-10-15                     |                  |
| <b>EN ISO 22827-2</b><br>Acceptance tests for Nd:YAG laser beam welding machines - Machines with optical fibre delivery - Part 2: Moving mechanism (ISO 22827-2:2005)                   | 60.60                  | 2005-10-15                     |                  |

**CEN/TC 121/SC 5****Testing of welds**

Vorsitz: Jean-Michel Tchilian

|  |       |            |  |
|--|-------|------------|--|
| <b>EN 1435/A1</b><br>Non-destructive testing of welds - Radiographic testing of welded joints  | 60.60 | 2002-05-29 |  |
| <b>EN 1435/A2</b><br>Non-destructive testing of welds - Radiographic testing of welded joints  | 60.60 | 2003-12-10 |  |
| <b>EN 1711</b><br>Non-destructive examination of welds - Eddy current examination of welds by complex plane analysis   | 90.93 | 2000-02-16 |  |
| <b>EN 1711/A1</b><br>Non-destructive examination of welds - Eddy current examination of welds by complex plane analysis  | 60.60 | 2003-12-10 |  |
| <b>EN 12517-1</b><br>Non-destructive testing of welds - Part 1: Evaluation of welded joints in steel, nickel, titanium and their alloys by radiography - Acceptance levels | 60.60 | 2006-03-15 | EN 12517 1998-02-18<br>EN 12517/A1 2002-10-23<br>EN 12517/A2 2003-12-10<br>EN 12517/A1/AC 2003-12-17 |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz  |
|---|------------------------|--------------------------------|---|
| <b>CEN/TR 15135</b><br>Welding - Design and non-destructive testing of welds                                      | 60.60                  | 2005-06-15                     |   |
| <b>EN ISO 17635</b><br>Non-destructive testing of welds - General rules for metallic materials (ISO 17635:2010)   | 60.60                  | 2010-03-01                     | EN 12062 1997-08-20<br>EN 12062/A1 2002-05-29<br>EN 12062/A2 2003-12-10 |
| <b>EN ISO 17637</b><br>Non-destructive testing of welds - Visual testing of fusion-welded joints (ISO 17637:2003) | 60.60                  | 2011-03-02                     | EN 970 1997-02-19   |
| <b>EN ISO 17638</b><br>Non-destructive testing of welds - Magnetic particle testing (ISO 17638:2003)              | 60.60                  | 2009-11-11                     | EN 1290 1998-02-18<br>EN 1290/A1 2002-05-29<br>EN 1290/A2 2003-12-10    |

**CEN/TC 121/SC 5/WG 1****Radiography of welds**

Vorsitz: Dir. und Prof. Dr. Heinrich Heidt

|  |       |            |            |
|--|-------|------------|------------|
| <b>EN 12517-2</b><br>Non-destructive testing of welds - Part 2: Evaluation of welded joints in aluminium and its alloys by radiography - Acceptance levels | 60.60 | 2008-08-20 | prEN 12517 |
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**CEN/TC 121/SC 5/WG 2****Ultrasonic testing of welds**

Vorsitz: Udo Schlengermann

|  |       |            |  |
|--|-------|------------|--|
| <b>EN 15617</b><br>Non-destructive testing of welds - Time-of-flight diffraction technique (TOFD) - Acceptance levels                              | 60.60 | 2009-03-11 |  |
| <b>EN ISO 10863</b><br>Non-destructive testing of welds - Ultrasonic testing - Use of time-of-flight diffraction technique (TOFD) (ISO 10863:2011) | 60.60 | 2011-09-01 | CEN/TS 14751 2004-11-10  |
| <b>EN ISO 11666</b><br>Non-destructive testing of welds - Ultrasonic testing - Acceptance levels (ISO 11666:2010)                                  | 60.60 | 2010-12-15 | EN 1712 1997-08-20<br>EN 1712/A1 2002-05-29<br>EN 1712/A2 2003-12-10 |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz   |
|---|------------------------|--------------------------------|--|
| <b>EN ISO 17640</b><br>Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment (ISO 17640:2010)                    | 60.60                  | 2010-12-15                     | EN 1714 1997-08-20<br>EN 1714/A1 2002-05-29<br>EN 1714/A2 2003-12-10 |
| <b>EN ISO 22825</b><br>Non-destructive testing of welds - Ultrasonic testing - Testing of welds in austenitic steels and nickel-based alloys (ISO 22825:2006) | 90.92                  | 2006-07-01                     |  |
| <b>EN ISO 23278</b><br>Non-destructive testing of welds - Magnetic particle testing of welds - Acceptance levels (ISO 23278:2006)                             | 60.60                  | 2009-11-11                     | EN 1291 1998-02-18<br>EN 1291/A1 2002-05-29<br>EN 1291/A2 2003-12-10 |
| <b>EN ISO 23279</b><br>Non-destructive testing of welds - Ultrasonic testing - Characterization of indications in welds (ISO 23279:2010)                      | 60.60                  | 2010-03-01                     | EN 1713 1998-05-20<br>EN 1713/A1 2002-05-29<br>EN 1713/A2 2003-12-10 |

**CEN/TC 121/SC 5/WG 7****Destructive testing**

Vorsitz: Dr.-Ing. Thomas Kannengießer

|   |       |            |                   |
|---|-------|------------|-------------------|
| <b>EN ISO 5173</b><br>Destructive tests on welds in metallic materials - Bend tests (ISO 5173:2009)   | 60.60 | 2010-04-14 | EN 910 1996-03-20 |
| <b>EN ISO 5173/A1</b><br>Destructive tests on welds in metallic materials - Bend tests - Amendment 1 (ISO 5173:2009/Amd 1:2011)   | 60.60 | 2011-11-01 |                   |
| <b>EN ISO 9018</b><br>Destructive tests on welds in metallic materials - Tensile test on cruciform and lapped joints (ISO 9018:2003)  | 90.93 | 2003-12-01 |                   |
| <b>EN ISO 14270</b><br>Specimen dimensions and procedure for mechanized peel testing resistance spot, seam and embossed projection welds (ISO 14270:2000)   | 90.93 | 2001-10-24 |                   |
| <b>EN ISO 14272</b><br>Specimen dimensions and procedure for cross tension testing resistance spot and embossed projection welds (ISO 14272:2000)   | 90.93 | 2001-10-24 |                   |
| <b>EN ISO 14273</b><br>Specimen dimensions and procedure for shear testing resistance spot, seam and embossed projection welds (ISO 14273:2000)   | 90.93 | 2001-10-24 |                   |
| <b>EN ISO 14323</b><br>Resistance spot welding and projection welds - Destructive testing of welds - Specimen dimensions and procedure for impact shear test and cross-tension testing (ISO 14323:2006) | 60.60 | 2006-05-01 |                   |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz        |
|--|------------------------|--------------------------------|-------------------------|
| <b>EN ISO 14324</b><br>Resistance spot welding - Destructive tests of welds - Method for the fatigue testing of spot welded joints (ISO/FDIS 14324:2003)   | 90.93                  | 2003-07-01                     |                         |
| <b>EN ISO 14329</b><br>Resistance welding - Destructive tests of welds - Failure types and geometric measurements for resistance spot, seam and projection welds (ISO 14329:2003)                | 90.93                  | 2003-07-01                     |                         |
| <b>EN ISO 15653</b><br>Metallic materials - Method of test for the determination of quasistatic fracture toughness of welds (ISO 15653:2010)   | 60.60                  | 2010-04-01                     |                         |
| <b>EN ISO 17641-1</b><br>Destructive tests on welds in metallic materials - Hot cracking tests for weldments - Arc welding processes - Part 1: General (ISO 17641-1:2004)                        | 90.93                  | 2004-08-01                     |                         |
| <b>EN ISO 17641-2</b><br>Destructive tests on welds in metallic materials - Hot cracking tests for weldments - Arc welding processes - Part 2: Self-restraint tests (ISO 17641-2:2005)           | 60.60                  | 2005-03-15                     |                         |
| <b>CEN ISO/TR 17641-3</b><br>Destructive tests on welds in metallic materials - Hot cracking tests for weldments - Arc welding processes - Part 3: Externally loaded tests (ISO/TR 17641-3:2005) | 60.60                  | 2005-03-15                     |                         |
| <b>EN ISO 17642-1</b><br>Destructive tests on welds in metallic materials - Cold cracking tests for weldments - Arc welding processes - Part 1: General (ISO 17642-1:2004)                       | 90.93                  | 2004-08-01                     |                         |
| <b>EN ISO 17642-2</b><br>Destructive tests on welds in metallic materials - Cold cracking tests for weldments - Arc welding processes - Part 2: Self-restraint tests (ISO 17642-2:2005)          | 60.60                  | 2005-03-15                     |                         |
| <b>EN ISO 17642-3</b><br>Destructive tests on welds in metallic materials - Cold cracking tests for weldments - Arc welding processes - Part 3: Externally loaded tests (ISO 17642-3:2005)       | 60.60                  | 2005-03-15                     |                         |
| <b>EN ISO 17653</b><br>Destructive tests on welds in metallic materials - Torsion test of resistance spot welds (ISO 17653:2003)   | 90.92                  | 2003-03-01                     |                         |
| <b>EN ISO 17654</b><br>Resistance welding - Destructive tests of welds - Pressure test of resistance seam welds (ISO 17654:2011)   | 60.60                  | 2011-09-15                     | EN ISO 17654 2003-03-01 |
| <b>EN ISO 17655</b><br>Destructive tests on welds in metallic materials - Method for taking samples for delta ferrite measurement (ISO 17655:2003)   | 90.93                  | 2003-03-01                     |                         |

**CEN/TC 121/SC 7****Equipment for gas welding, cutting and allied processes**

Vorsitz: Univ. Prof. Dr. Ing. habil. Kurt Ziegler

|   |       |            |                   |
|---|-------|------------|-------------------|
| <b>EN 560</b><br>Gas welding equipment - Hose connections for equipment for welding, cutting and allied processes | 90.93 | 2005-06-08 | EN 560 1994-09-30 |
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| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz   |
|---|------------------------|--------------------------------|--|
| <b>EN 560/AC</b><br>Gas welding equipment - Hose connections for equipment for welding, cutting and allied processes  | 60.60                  | 2007-10-24                     |  |
| <b>EN 561</b><br>Gas welding equipment - Quick-action coupling with shut-off valves for welding, cutting and allied processes   | 90.93                  | 2002-06-19                     | EN 561 1994-09-30  |
| <b>EN 730-1</b><br>Gas welding equipment - Safety devices - Part 1: Incorporating a flame (flashback) arrestor  | 90.93                  | 2002-10-16                     | EN 730 1995-04-26  |
| <b>EN 730-2</b><br>Gas welding equipment - Safety devices - Part 2: Not incorporating a flame (flashback) arrestor  | 90.93                  | 2002-10-16                     | EN 730 1995-04-26  |
| <b>EN 1256</b><br>Gas welding equipment - Specification for hose assemblies for equipment for welding, cutting and allied processes   | 90.93                  | 2006-02-01                     | EN 1256 1996-03-20   |
| <b>EN 13622</b><br>Gas welding equipment - Terminology - Terms used for gas welding equipment   | 90.93                  | 2002-04-17                     |  |
| <b>CEN/TR 15068</b><br>Gas welding equipment - Measurement of noise emitted by blowpipe for welding, cutting, heating, brazing and soldering - Measurement method   | 60.60                  | 2009-03-25                     |  |
| <b>EN ISO 2503</b><br>Gas welding equipment - Pressure regulators and pressure regulators with flow-metering devices for gas cylinders used in welding, cutting and allied processes up to 300 bar (30 MPa) (ISO 2503:2009) | 60.60                  | 2009-07-15                     | EN ISO 2503 1998-04-01<br>EN 13918 2003-04-23<br>EN ISO 2503/AC 1998-12-24 |
| <b>EN ISO 3821</b><br>Gas welding equipment - Rubber hoses for welding, cutting and allied processes (ISO 3821:2008)  | 60.60                  | 2010-03-24                     | EN 559 2003-04-23  |
| <b>EN ISO 5171</b><br>Gas welding equipment - Pressure gauges used in welding, cutting and allied processes (ISO 5171:2009)   | 60.60                  | 2010-03-24                     | EN 562 2003-05-28  |
| <b>EN ISO 5172</b><br>Gas welding equipment - Blowpipes for gas welding, heating and cutting - Specifications and tests (ISO 5172:2006)   | 90.93                  | 2006-04-01                     | EN ISO 5172 1996-10-23<br>EN 874 1995-04-21                                |
| <b>EN ISO 7287</b><br>Graphical symbols for thermal cutting equipment (ISO 7287:2002)   | 90.93                  | 2002-02-15                     | EN ISO 7287 1995-01-23   |
| <b>EN ISO 7291</b><br>Gas welding equipment - Pressure regulators for manifold systems used in welding, cutting and allied processes up to 30 MPa (300 bar) (ISO 7291:2010)   | 60.60                  | 2010-11-01                     | EN ISO 7291 2001-08-15   |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz        |
|---|------------------------|--------------------------------|-------------------------|
| <b>EN ISO 9012</b><br>Gas welding equipment - Air-aspirated hand blowpipes - Specifications and tests (ISO 9012:2008)   | 60.60                  | 2011-10-05                     | EN 731 1995-05-24       |
| <b>EN ISO 9013</b><br>Thermal cutting - Classification of thermal cuts - Geometrical product specification and quality tolerances (ISO 9013:2002)                                   | 90.93                  | 2002-09-15                     | EN ISO 9013 1995-03-14  |
| <b>EN ISO 9013/A1</b><br>Thermal cutting - Classification of thermal cuts - Geometrical product specification and quality tolerances (ISO 9013:2003)                                | 60.60                  | 2003-12-10                     |                         |
| <b>EN ISO 9539</b><br>Gas welding equipment - Materials for equipment used in gas welding, cutting and allied processes (ISO 9539:2010)   | 60.60                  | 2010-01-15                     | EN 29539 1992-05-27     |
| <b>EN ISO 14113</b><br>Gas welding equipment - Rubber and plastics hose and hose assemblies for use with industrial gases up to 450 bar (45 MPa) (ISO 14113:2007)                   | 60.60                  | 2008-10-15                     | EN ISO 14113 1997-08-15 |
| <b>EN ISO 14114</b><br>Gas welding equipment - Acetylene manifold systems for welding, cutting and allied processes - General requirements (ISO 14114:1999)                         | 90.92                  | 1999-07-01                     |                         |
| <b>EN ISO 15615</b><br>Gas welding equipment - Acetylene manifold systems for welding, cutting and allied processes - Safety requirements in high-pressure devices (ISO 15615:2002) | 90.92                  | 2002-04-15                     |                         |

**CEN/TC 121/SC 8****Brazing**

Vorsitz:

Philip M Roberts

|  |       |            |  |
|--|-------|------------|--|
| <b>EN 12797</b><br>Brazing - Destructive tests of brazed joints              | 90.93 | 2000-07-19 |  |
| <b>EN 12797/A1</b><br>Brazing - Destructive tests of brazed joints           | 60.60 | 2003-12-10 |  |
| <b>EN 12799</b><br>Brazing - Non-destructive examination of brazed joints    | 90.93 | 2000-07-19 |  |
| <b>EN 12799/A1</b><br>Brazing - Non-destructive examination of brazed joints | 60.60 | 2003-12-10 |  |
| <b>EN 13133</b><br>Brazing - Brazer approval                                 | 90.92 | 2000-08-23 |  |
| <b>EN 13134</b><br>Brazing - Procedure approval                              | 90.92 | 2000-08-23 |  |

| Bezeichnung<br>Titel   | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz   |
|--|------------------------|--------------------------------|--------------------|
| <b>EN 14324</b><br>Brazing - Guidance on the application of brazed joints        | 90.93                  | 2004-09-22                     |                    |
| <b>EN ISO 17672</b><br>Brazing - Filler metals (ISO 17672:2010)                  | 60.60                  | 2010-06-01                     | EN 1044 1999-05-19 |
| <b>EN ISO 18279</b><br>Brazing - Imperfections in brazed joints (ISO 18279:2003) | 90.93                  | 2003-12-15                     |                    |

**CEN/TC 121/SC 9****Health and safety in welding and allied processes**

Vorsitz: Dipl.-Wirtsch.-Ing. Eckhard Brügger

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|--|-------|------------|---|
| <b>EN 1598</b><br>Health and safety in welding and allied processes - Transparent welding curtains, strips and screens for arc welding processes   | 60.60 | 2011-09-28 | EN 1598 1997-10-22<br>EN 1598/A1 2001-12-12 |
| <b>EN ISO 10882-1</b><br>Health and safety in welding and allied processes - Sampling of airborne particles and gases in the operator's breathing zone - Part 1: Sampling of airborne particles (ISO 10882-1:2011)   | 60.60 | 2011-10-01 | EN ISO 10882-1 2001-01-15                   |
| <b>EN ISO 10882-2</b><br>Health and safety in welding and allied processes - Sampling of airborne particles and gases in the operator's breathing zone - Part 2: Sampling of gases (ISO 10882-2:2000)  | 90.93 | 2000-09-01 |   |
| <b>EN ISO 15011-1</b><br>Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 1: Determination of fume emission rate during arc welding and collection of fume for analysis (ISO 15011-1:2009)   | 60.60 | 2009-10-15 | EN ISO 15011-1 2002-04-01                   |
| <b>EN ISO 15011-2</b><br>Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 2: Determination of the emission rates of carbon monoxide (CO), carbon dioxide (CO <sub>2</sub> ), nitrogen monoxide (NO) and nitrogen dioxide (NO <sub>2</sub> ) during arc welding, cutting and gouging (ISO 15011-2:2009) | 60.60 | 2009-10-15 | EN ISO 15011-2 2003-05-01                   |
| <b>EN ISO 15011-3</b><br>Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 3: Determination of ozone emission rate during arc welding (ISO 15011-3:2009)  | 60.60 | 2009-10-15 | EN ISO 15011-3 2002-11-15                   |
| <b>EN ISO 15011-4</b><br>Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 4: Fume data sheets (ISO 15011-4:2006)   | 90.93 | 2006-03-15 |   |
| <b>EN ISO 15011-4/A1</b><br>Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 4: Fume data sheets - Amendment 1 (ISO 15011-4:2006/Amd 1:2008)   | 60.60 | 2008-12-15 |   |

| Bezeichnung<br>Titel  | Akt. Bearb. -<br>Stufe | Ausgabe-/<br>Erscheinungsdatum | (vorges.) Ersatz                 |
|---|------------------------|--------------------------------|----------------------------------|
| <b>EN ISO 15011-5</b><br>Health and safety in welding and allied processes - Laboratory method for sampling fume and gases - Part 5: Identification of thermal-degradation products generated when welding or cutting through products composed wholly or partly of organic materials using pyrolysis-gas chromatography-mass spectrometry (ISO 15011-5:2011) | 60.60                  | 2011-10-01                     | CEN ISO/TS 15011-5<br>2006-03-15 |
| <b>EN ISO 15012-1</b><br>Health and safety in welding and allied processes - Requirements testing and marking of equipment for air filtration - Part 1: Testing of the separation efficiency for welding fume (ISO 15012-1:2004)  | 90.92                  | 2004-12-15                     |                                  |
| <b>EN ISO 15012-2</b><br>Health and safety in welding and allied processes - Requirements, testing and marking of equipment for air filtration - Part 2: Determination of the minimum air volume flow rate of captor hoods and nozzles (ISO 15012-2:2008)   | 60.60                  | 2008-04-01                     |                                  |

|       |   |
|-------|---|
| 95.99 | Zurückziehung einleiten                           |
| 99.20 | Zurückziehen                                      |
| 99.40 | Ankündigung der Zurückziehung in DIN-Mitteilungen |
| 99.60 | ohne Ersatz zurückgezogen                         |



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Home page > Work area > Electronic platforms > Milestone Stage Codes

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## Milestone Stage Codes

00.60.0000 Completion of Proposal/Preliminary stage  
10.98.0000 Decision on WI proposal - Reject  
10.99.0000 Decision on WI proposal - Accept  
20.60.0979 Circulation of 1st Working Document  
30.97.0009 End of interruption of work - split/merged  
30.98.0009 End of interruption of work - abandoned  
30.99.0979 Dispatch of ENQ draft to CMC  
40.20.0000 Submission to enquiry  
40.60.0000 Closure of enquiry  
40.98.0009 End of interruption of work - abandoned  
43.10.6309 Provision draft translation: en  
43.20.0000 Submission to COCOR  
43.60.0000 Closure of COCOR  
45.98.0009 End of interruption of work - abandoned  
45.99.0979 Dispatch of FV draft to CMC  
50.20.0000 Submission to Vote  
50.60.0000 Closure of Vote  
50.98.0009 End of interruption of work - abandoned  
60.55.0000 CEN Ratification completed (DOR)  
60.60.0000 Definitive text made available (DAV)  
65.31.0000 Announcement (DOA)  
65.51.0000 Completion of mandatory publication (DOP)  
65.62.0000 Completion of withdrawal of conflicting national standards (DOW)  
90.00.0000 Start of review/2 Year Review Enquiry  
90.20.0000 Submission to 2 Year Review Enquiry  
90.60.0000 Closure of 2 Year Review Enquiry  
90.92.0000 Decision on results of review/2YR ENQ - revise  
90.93.0000 Decision on results of review/2YR ENQ - confirm  
96.60.0009 End of re-activation of work  
99.60.0000 Withdrawal effective