

Information sheet

Proficiency tests metal 2014 ASTM

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| Organiser: | Institut für Eignungsprüfung IfEP GmbH, Marl, Germany |
| Registration: | By means of the attached form |
| Intention: | Confirmation of technical competence of participating laboratories |
| Data evaluation: | Based on ISO/IEC 17043 and ISO 13528 |
| Confidentiality: | Each laboratory receives a specific code number |
| Documentation: | Confirmation of participation Certificate in case of successful participation Final report with a list of participants in alphabetical order with declaration of consent; determination of measurement uncertainty according to the current standards and guidelines. Details for subcontracting of single parts: please see www.ifep.de , section „proficiency tests“ |

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|---|---|---|
| No. AS1401 Hardness Testing Rockwell C | Test Standard: | ASTM E18, HRC |
| | Material: | Certified reference hardness test block (MPA NRW Dortmund, Germany) Test material with similar hardness (to be prepared by participants) |
| | Test program: | 3 x five hardness measurements on certified reference hardness test blocks five hardness measurements on test specimens |
| | Test sequence: | Each hardness test block will be tested by several participants. There will be an arrangement of the dates in advance. |
| | Results to be submitted: | 3 x five hardness values of the hardness test blocks five hardness values of test material |
| | Assigned Value: | Certified reference values of MPA NRW Dortmund, Germany |
| | Additional information provided by organiser: | Confirmation of measurement uncertainty of each laboratory based on ASTM E18 |
| | Participation fee: | Germany 330 €; other countries + transport costs* estimated start calendar week 05/2014 |

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|---|--------------------------|--|
| No. AS1405 Resistance against intergranular attack | Test Standard: | ASTM A262, practice B, Streicher test |
| | Material: | Stainless steel |
| | Production of specimens: | By the organiser |
| | Results to be submitted: | Mass loss |
| | Assigned value: | Consensus value calculated from the results of all participants |
| | Participation fee: | Germany 310 €; other countries + transport costs* estimated start calendar week 12/2014 |

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| No. AS1407 Tensile test aluminium | Test Standard: | ASTM E8 |
| | Material: | 6 round bar specimens aluminium Specimen diameter $d_0 = 10$ mm or $d_0 = 6$ mm Specimen head ISO thread M16 or M10 |
| | Production of specimens: | By the organiser |
| | Results to be submitted: | Characteristic values according to the test standard, additionally "Young's Module" and the measurement uncertainty |
| | Assigned Value: | Consensus values calculated from the results of the participants |
| | Additional information: | Statement to the measurement uncertainty of the test method |
| Participation fee: | Germany 330 €; other countries + transport costs* estimated start calendar week 15/2014 | |

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|---|--|--|
| No. AS1409 Tensile test steel round bars | Test Standard: | ASTM E8 |
| | Material: | 6 round specimens, steel , Specimen diameter $d_0 = 10$ mm Specimen head ISO thread M16, special shapes possible against payment |
| | Production of specimens: | By the organiser |
| | Results to be submitted: | Characteristic values according to the test standard, additionally "Young's Module" and the measurement uncertainty |
| | Assigned Value: | Consensus value calculated from the results of all the participants |
| | Additional information: | Confirmation of the individual measurement uncertainty of each laboratory |
| Participation fee: | Germany 450 €; other countries + transport costs* estimated start calendar week 40/2014 | |

* Prices excl. valid VAT, transport costs, see www.ifep.eu

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|---|--------------------------|--|
| No. AS1410 Tensile test steel flat tensile specimens | Test Standard: | ASTM E8 / E8M |
| | Material: | 6 flat specimens, thickness approx. 1 mm, geometry according to ASTM E8 |
| | Production of specimens: | By the organiser |
| | Results to be submitted: | Characteristic values according to the test standard, additionally "Young's Module" and the measurement uncertainty |
| | Assigned Value: | Consensus value calculated from the results of all the participants |
| | Additional information: | Confirmation of the individual measurement uncertainty of each laboratory |
| | Participation fee: | Germany 330 €; other countries + transport costs* estimated start calendar week 22/2014 |
| No. AS1411 Charpy impact testing | Test Standard: | ASTM E23 (8 mm striker) |
| | Material: | Charpy test specimens, impact energy low level (RT), average level (RT), high level (RT) |
| | Production of specimens: | By the organiser |
| | Results to be submitted: | 5 values according to ASTM E23 each energy level |
| | Assigned Value: | Reference value, limits according to ASTM E23 |
| | Additional information: | Statement to the measurement uncertainty of the test method |
| | Participation fee: | One energy level: Germany 310 €; other countries + transport costs* Two energy levels: Germany 490 €; other countries + transport costs* Three energy levels: Germany 630 €; other countries + transport costs* estimated start calendar week 25/2014 |
| No. AS1413 Metallography Image analysis | Test Standard: | ASTM E 112 appointment also possible via digital image processing |
| | Material: | Micrograph; in part simulated, in digital form and as photo |
| | Results to be submitted: | e.g. grain size, determination of phases |
| | Assigned Value: | Consensus value, sample solution |
| | Participation fee: | Germany 245 €; other countries + transport costs* estimated start calendar week 30/2014 |
| No. AS1414 Metallography Sample preparation | Test Standard: | ASTM E 112 |
| | Material: | Metallic samples for grinding preparation and analysis |
| | Results to be submitted: | e.g. grain size, determination of phases |
| | Assigned Value: | Consensus value, sample solution |
| | Participation fee: | Germany 275 €; other countries + transport costs* estimated start calendar week 30/2014 |

* Prices. excl. valid VAT, transport costs, see www.ifep.eu

Registration Proficiency Tests Metal 2014 ASTM

via Fax to: +49 (0) 2365 / 209 00 35 or via E-Mail to: Sorge@ifep.eu

We will participate in the following proficiency test(s):

| No. | please mark | Proficiency test | Expected Start (calendar week 2014) | Return of the results | Participation fee | A bilateral registration for the proficiency tests after the official start date is still possible! |
|---------|--------------------------|--|--|-----------------------|----------------------------|---|
| AS1401 | <input type="checkbox"/> | Hardness Testing Rockwell C | 05 | 1 week | 330 € * | |
| AS1405 | <input type="checkbox"/> | Resistance against intergranular attack, ASTM A262 | 12 | 4 weeks | 310 € * | |
| AS1407 | <input type="checkbox"/> | Tensile test, ASTM E8, aluminium | 15 | 4 weeks | 330 € * | |
| AS1409 | <input type="checkbox"/> | Tensile test, ASTM E8, round specimens | 40 | 4 weeks | 450 € * | |
| AS1410 | <input type="checkbox"/> | Tensile test, ASTM E8, flat tensile specimens | 22 | 4 weeks | 330 € * | |
| AS1411a | <input type="checkbox"/> | Charpy, ASTM E23, low level | 25 | 4 weeks | 1 level: total 310 € * | |
| AS1411b | <input type="checkbox"/> | Charpy, ASTM E23, average level | | | 2 levels: total 490 € * | |
| AS1411c | <input type="checkbox"/> | Charpy, ASTM E23, high level | | | 3 levels: total 630 € * | |
| AS1413 | <input type="checkbox"/> | Metallography, ASTM E 112, image analysis | 30 | 4 weeks | 245 € * | |
| AS1414 | <input type="checkbox"/> | Metallography, ASTM E 112, sample preparation | 30 | 4 weeks * | 275 € * | |

* Prices for Germany excl. VAT, other countries: Delivery and duty costs will be added to participation fee, see www.ifep.eu

The costs have to be paid to Institut für Eignungsprüfung IfEP in advance. **Specimens will be sent to the participants upon payment by the participant.** The organiser will charge 25 % of the fee if the registration is cancelled four weeks prior to the start of the proficiency test. For cancellations later than this, the full amount will be charged.

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| Company: | | _____ Date / signature /stamp |
| Department: | | |
| Contact person: <input type="checkbox"/> Ms. <input type="checkbox"/> Mr. | | |
| Address: | | |
| ZIP Code / City: | Country: | <input type="checkbox"/> German <input type="checkbox"/> English |
| Telephone: | Fax: | E-Mail: |
| <u>Necessary additional information:</u> Your companies' tax identification number: | | |
| Billing address (if differing): | | Delivery address (if differing): |
| Further invoice-details, e.g. cost unit: | | |
| I confirm with my signature that the service is carried out for my/our company (and not for a private person). | | |