

Information sheet

Proficiency tests metal 2023

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. Usually the participation is approved for accreditations according to NADCAP.
Confidentiality:	Each laboratory receives a specific code number
Documentation:	Certificate 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“

No. 2301-HB Hardness testing Brinell	Test standard:	ISO 6506, part 1, HBW 2,5/187,5 and/or HBW 10/3000
	Material:	steel specimen to be prepared by the laboratory
	Test program:	five hardness measurements on reference hardness block
	Test sequence:	Each participant receives a reference specimen.
	Results to be submitted:	five hardness values of the hardness block
	Assigned value:	Consensus value calculated from the results of all participants
	Participation fee:	HBW 2,5/187,5 or HBW 10/3000: Germany 330 € other countries + transport costs* HBW 2,5/187,5 and HBW 10/3000: Germany 490 € (245 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2023

No. 2301-HR Hardness testing Rockwell C	Test standard:	ISO 6508, part 1, HRC
	Material:	steel specimens to be prepared by the laboratory
	Test program:	3 x five hardness measurements on reference hardness blocks
	Test sequence:	Each participant receives three reference specimens.
	Results to be submitted:	3 x five hardness values of the hardness blocks
	Assigned Value:	Consensus value calculated from the results of all participants
	Participation fee:	Germany 330 € other countries + transport costs* estimated start: III. quarter 2023

No. 2301-HV Hardness testing Vickers	Test standard:	ISO 6507, part 1, HV 1 and/or HV 10/HV 30
	Material:	steel specimen to be prepared by the laboratory
	Test program:	five hardness measurements on reference hardness block
	Test sequence:	Each participant receives a reference specimen.
	Results to be submitted:	five hardness values of the hardness block
	Assigned value:	Consensus value calculated from the results of all participants
	Participation fee:	HV 1 or HV 10/HV 30: Germany 330 € other countries + transport costs* HV 1 and HV 10/HV 30: Germany 490 € (245 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2023

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No. 2303 Emission spectrometry steel	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no "synthetic alloy") 2303L: low alloyed steel 2303U: un-alloyed steel
	Results to be submitted:	Characteristic values according to specifications
	Assigned value:	Consensus value calculated from the results of all participants
	Additional information:	Statement to measurement uncertainty
	Participation fee:	one alloy: Germany 310 €, other countries + transport costs* two alloys: Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2023
No. 2304 Emission spectrometry (non ferrous-metals)	Test standard:	In-house procedure
	Material:	Material similar to daily laboratory work (no "synthetic alloy") 2304Al: Aluminium-alloy 2304Ni: Nickel-based-alloy
	Results to be submitted:	Characteristic values according to specifications
	Assigned value:	Consensus value calculated from the results of all the participants
	Additional information:	Statement to measurement uncertainty
	Participation fee:	one alloy: Germany 310 €, other countries + transport costs* two alloys: Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2023
No. 2305 Resistance against intergranular attack	Test standard:	ISO 3651, part 2, Strauss-Test
	Material:	Stainless steel
	Production of specimens:	by the participants
	Results to be submitted:	Acc. to standard
	Assigned value:	Execution acc. to standard
	Participation fee:	Germany 310 €, other countries + transport costs* estimated start: III. quarter 2023
No. 2306 Indirect verification of salt spray test chamber	Test standard:	ISO 9227
	Material:	Reference specimens
	Production of specimens:	by the organiser
	Results to be submitted:	Mass loss
	Assigned value:	Reference value
	Participation fee:	Germany 275 €, other countries + transport costs* estimated start: II. quarter 2023
No. 2307-RAI Tensile test aluminium (round specimens)	Test standard:	ISO 6892-1
	Material:	Standard samples: 6 round test specimens, aluminium, $d_0 = 10$ mm, specimen head: ISO thread M16 as per standard; Alternate samples: specimens with $d_0 = 6$ mm, specimen head: ISO thread M10, and/or 6 material sections, diameter app. 20 mm, length 150 mm each
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, measurement uncertainty of the test method
Participation fee:	2307-RAIM: Machined specimens: Germany 370 €, other countries + transport costs* 2307-RAIU: Unmachined specimens: Germany 290 €, other countries + transport costs* Machined AND unmachined specimens: Germany 600 € (300 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2023	

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No. 2307-FAI Tensile test aluminium (flat specimens)	Test standard:	ISO 6892-1
	Material:	6 flat specimens, aluminium, geometry according to ISO 6892-1, annex B, table B1, $a_0 = 1-3$ mm, $b_0 = 20$ mm, and/or 6 material sections of about 32 x 280 mm ² each
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, measurement uncertainty of the test method
	Participation fee:	2307-FAIM: Machined specimens: Germany 300 € other countries + transport costs* 2307-FAIU: Unmachined specimens: Germany 255 € other countries + transport costs* Machined AND unmachined specimens: Germany 500 € (250 €/proficiency test); other countries + transport costs* estimated start: III. quarter 2023
No. 2308 Non-destructive testing	Test standard:	RT, PT
	Material:	Steel specimens app. 200 x 200 x 10 mm ³ with weld seam in the middle, with flaws defined for the test method
	Results to be submitted:	Type / position / size of flaws
	Assigned value:	Sample solution
	Test sequence:	Each sample will be tested by several participants. There will be an arrangement of the dates in advance.
	Participation fee:	One method: Germany 350 € other countries + transport costs* Two methods: Germany 620 € (310 €/proficiency test); other countries + transport costs* estimated start: II. quarter 2023
No. 2309-R Tensile test steel (round specimens)	Test standard:	ISO 6892-1
	Material:	Standard samples: 6 round test specimens, steel, $d_0 = 10$ mm, specimen head: ISO thread M16 as per standard; Alternate samples: specimens with $d_0 = 6$ mm, specimen head: ISO thread M10, and/or 6 material sections, diameter app. 25 mm, length 150 mm each
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	2309-RM: Machined specimens: Germany 450 € other countries + transport costs* 2309-RU: Unmachined specimens: Germany 350 € other countries + transport costs* Machined AND unmachined specimens: Germany 700 € (350 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2023
No. 2309-RW Tensile test of round bar steel at elevated temperature	Test standard:	ISO 6892-2
	Material:	heat-resistant steel, testing at 200 °C Standard samples: 6 round test specimens, steel, $d_0 = 10$ mm, specimen head: ISO thread M16 as per standard, Alternate samples: specimens with $d_0 = 6$ mm, specimen head: ISO thread M10, and/or 6 material sections, dimensions 20 x 20 mm ² , length 150 mm each.
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	2309-RWM: Machined specimens: Germany 450 € other countries + transport costs* 2309-RWU: Unmachined specimens: Germany 350 € other countries + transport costs* Machined AND unmachined specimens: Germany 700 € (350 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2023

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No. 2310F Tensile test steel flat specimens, 1-3 mm	Test standard:	ISO 6892-1
	Material:	6 flat specimens, steel, geometry according to ISO 6892-1, annex B, table B1, $a_0 = 1-3$ mm, $b_0 = 20$ mm, and/or 6 material sections of about 32 x 280 mm ² each
	Production of specimens:	by the organiser / by the participants
	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 influence of specimen preparation, to measurement uncertainty of the test method
	Participation fee:	2310FM: Machined specimens: Germany 330 € other countries + transport costs* 2310FU: Unmachined specimens: Germany 285 € other countries + transport costs* Machined AND unmachined specimens: Germany 550 € (275 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2023
No. 2311 Charpy impact test machined specimens	Test standard:	ISO 148-1 / ISO 148-2 (2 mm striker)
	Material:	Charpy test specimens, impact energy low level (RT), average level (RT), high level (RT), super high level (RT)
	Production of specimens:	by the organiser
	Results to be submitted:	5 values according to ISO 148 each energy level
	Assigned value:	Consensus value, limits according to ISO 148-2
	Additional information:	Measurement uncertainty according to ISO 148-2
	Participation fee:	One energy level: Germany 310 €, other countries + transport costs* Two energy levels: Germany 490 € (245 €/proficiency test); other countries + transport costs* Three energy levels: Germany 630 € (210 €/proficiency test); other countries + transport costs* Four energy levels: Germany 760 € (190 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2023
No. 2311 Charpy impact test unmachined specimens	Test standard:	ISO 148-1 / ISO 148-2 (2 mm striker)
	Material:	Material sections, app. dimensions: 57 x 12 x 12 mm ³ , impact energy low level (RT), average level (RT), high level (RT), super high level (RT)
	Production of specimens:	by the participants
	Results to be submitted:	5 values according to ISO 148 each energy level
	Assigned value:	Consensus value, limits according to ISO 148-2
	Additional information:	Measurement uncertainty according to ISO 148-2
	Participation fee:	One energy level: Germany 250 €, other countries + transport costs* Two energy levels: Germany 400 € (200 €/proficiency test); other countries + transport costs* Three energy levels: Germany 525 € (175 €/proficiency test); other countries + transport costs* Four energy levels: Germany 660 € (165 €/proficiency test); other countries + transport costs* estimated start: IV. quarter 2023

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No. 2313 Metallography, image analysis	Test standard:	e. g. ISO 643, ASTM E 112 appointment also possible via digital image processing
	Material:	Micrograph; in part simulated, in digital form
	Results to be submitted:	e.g. grain size steel / phase content steel / phase content aluminium
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 275 €; other countries + transport costs* estimated start: III. quarter 2023
No. 2314 Metallography, sample preparation	Test standard:	e. g. ISO 643, ASTM E 112
	Material:	Metallic sample for grinding preparation and analysis
	Results to be submitted:	e.g. carbon content, grain size
	Assigned Value:	Consensus value, sample solution
	Participation fee:	Germany 300 €; other countries + transport costs* estimated start: III. quarter 2023
Nr. 2341-SD Measurement of coating thickness - XRF method	Test standard:	ISO 3497
	Material:	Galvanised steel sheet, coating thickness app. 1-40 µm
	Production of specimens:	By the organiser
	Results to be submitted:	Coating thickness
	Assigned Value:	Consensus value
	Participation fee:	Germany 300 €; other countries + transport costs* estimated start: III. quarter 2023
No. 2360 Computer Tomography	Test standard:	In-house procedure
	Material:	Aluminium specimen
	Results to be submitted:	Dimensions, porosity (optional)
	Assigned Value:	Reference value, measured using CMM technique
	Participation fee:	Germany 400 €; other countries + transport costs* estimated start: III. quarter 2023

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

Registration proficiency tests metal 2023: part 1

via e-mail to: Mende@ifep.de

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

No.	please mark	Proficiency test	Expected Start (quarter/2023)	Return of the results	Participation fee
2301-HB-a	<input type="checkbox"/>	Hardness testing Brinell HBW 2,5/187,5	III/2023	4 weeks	2301-HB-a or 2301-HB-b: total 330 €* 2301-HB-a and 2301-HB-b: total 490 €*
2301-HB-b	<input type="checkbox"/>	Hardness testing Brinell HBW 10/3000	III/2023	4 weeks	
2301-HR	<input type="checkbox"/>	Hardness testing Rockwell C	III/2023	4 weeks	330 €*
2301-HV-a	<input type="checkbox"/>	Hardness testing Vickers HV 1	III/2023	4 weeks	2301-HV-a or 2301-HV-b: total 330 €* 2301-HV-a and 2301-HV-b: total 490 €*
2301-HV-b	<input type="checkbox"/>	Hardness testing Vickers HV 10/HV 30	III/2023	4 weeks	
2303L	<input type="checkbox"/>	Emission spectrometry low alloyed steel	II/2023	4 weeks	1 alloy: total 310 €*
2303U	<input type="checkbox"/>	Emission spectrometry un-alloyed steel	II/2023	4 weeks	2 alloys: total 550 €*
2304Al	<input type="checkbox"/>	Emission spectrometry Aluminium-alloy	II/2023	4 weeks	1 alloy: total 310 €*
2304Ni	<input type="checkbox"/>	Emission spectrometry Nickel-based-alloy	II/2023	4 weeks	2 alloys: total 550 €*
2305	<input type="checkbox"/>	Resistance to intergranular corrosion	III/2023	4 weeks	310 €*
2306	<input type="checkbox"/>	Indirect verification of salt spray test chamber	II/2023	4 weeks	275 €*
2307-RAIM	Standard samples: <input type="checkbox"/>	Tensile test aluminium, round specimens machined specimens	III/2023	4 weeks	2307-RAIM: 370 €* 2307-RAIU: 290 €* 2307-RAIM and 2307-RAIU: total 600 €*
	Alternate samples: <input type="checkbox"/>				
2307-RAIU	<input type="checkbox"/>	Tensile test aluminium, round specimens unmachined specimens	III/2023	4 weeks	
2307-FAIM	<input type="checkbox"/>	Tensile test aluminium, flat specimens machined specimens	III/2023	4 weeks	
2307-FAIU	<input type="checkbox"/>	Tensile test aluminium, flat specimens unmachined specimens	III/2023	4 weeks	2307-FAIM: 300 €* 2307-FAIU: 255 €* 2307-FAIM and 2307-FAIU: total 500 €*
2308a	<input type="checkbox"/>	RT, radiographic testing	II/2023	1 week	1 method: total 350 €*
2308b	<input type="checkbox"/>	PT, penetrant testing	II/2023	1 week	2 methods: total 620 €*
2309-RM	Standard samples: <input type="checkbox"/>	Tensile test steel round specimens machined specimens	IV/2023	4 weeks	2309-RM: 450 €* 2309-RU: 350 €* 2309-RM and 2309-RU: total 700 €*
	Alternate samples: <input type="checkbox"/>				
2309-RU	<input type="checkbox"/>	Tensile test steel round specimens unmachined specimens	IV/2023	4 weeks	
2309-RWM	Standard samples: <input type="checkbox"/>	Tensile test of round bar steel at elevated temperature machined specimens	IV/2023	4 weeks	
	Alternate samples: <input type="checkbox"/>				
2309-RWU	<input type="checkbox"/>	Tensile test of round bar steel at elevated temperature unmachined specimens	IV/2023	4 weeks	2309-RWM: 450 €* 2309-RWU: 350 €* 2309-RWM and 2309-RWU: total 700 €*
2310FM	<input type="checkbox"/>	Tensile test steel flat specimens, 1-3 mm machined specimens	IV/2023	4 weeks	2310FM: 330 €* 2310FU: 285 €* 2310FM and 2310FU: total 550 €*
2310FU	<input type="checkbox"/>	Tensile test steel flat specimens, 1-3 mm unmachined specimens	IV/2023	4 weeks	
2311-LM	<input type="checkbox"/>	Charpy impact test low level machined specimens	IV/2023	4 weeks	1 level: total 310 €*
2311-MM	<input type="checkbox"/>	Charpy impact test average level machined specimens			2 levels: total 490 €*
2311-HM	<input type="checkbox"/>	Charpy impact test high level machined specimens			3 levels: total 630 €*
2311-SM	<input type="checkbox"/>	Charpy impact test super high level machined specimens			4 levels: total 760 €*

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

Continuation on the next page.
Please submit pages 6 and 7 for a binding order.

Registration proficiency tests metal 2023: part 2

No.	please mark	Proficiency test	Expected Start (quarter/2023)	Return of the results	Participation fee
2311-LU	<input type="checkbox"/>	Charpy impact test low level unmachined specimens	IV/2023	4 weeks	1 level: total 250 €* 2 levels: total 400 €* 3 levels: total 525 €* 4 levels: total 660 €*
2311-MU	<input type="checkbox"/>	Charpy impact test average level unmachined specimens			
2311-HU	<input type="checkbox"/>	Charpy impact test high level unmachined specimens			
2311-SU	<input type="checkbox"/>	Charpy impact test super high level unmachined specimens			
2313	<input type="checkbox"/>	Metallography, image analysis	III/2023	4 weeks	275 €*
2314	<input type="checkbox"/>	Metallography, sample preparation	III/2023	4 weeks	300 €*
2341-SD	<input type="checkbox"/>	Coating thickness XRF method	III/2023	4 weeks	300 €*
2360	<input type="checkbox"/>	Computer Tomography	III/2023	1 weeks	400 €*

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The costs will be invoiced by Institut für Eignungsprüfung IfEP GmbH in **advance**. The total invoice amount is to be paid two weeks after receipt of the invoice, independent of the shipment of the specimens.

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.

Company:		Date / signature / stamp			
Department:					
Contact person:	<input type="checkbox"/> Ms. <input type="checkbox"/> Mr.			First name:	Surname:
Address:					
ZIP Code:	City:	Country:	<input type="checkbox"/> German <input type="checkbox"/> English		
Telephone:	E-Mail:				
<u>Necessary additional information</u> (your order cannot be processed without this information): Your VAT identification number:					
Billing address (only if differing):		Delivery address (only 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).					

Please submit pages 6 and 7 for a binding order.