

DRRR GmbH · Reinhartser Straße 31 · D-87437 Kempten

Herr Josef Andrek
Institut für Galvano- und Oberflächentechnik Solingen GmbH & Co.
KG
Grünewalder Str. 29-31
42657 Solingen
Germany

DRRR-Proficiency Testing
RVEP 230252 Corrosion testing (NSS)
ISO 9227

Dear participant

Thank you very much for participating in our proficiency testing.

Your lab code number is: 8

We hope, that we will meet your laboratory in the next proficiency testing round again. Registrations for our program are possible any time using our online system (ODIN) or the registration forms on our homepage: www.DRRR.de

For questions do not hesitate to contact us.

Yours sincerely

Thorsten Helbig

date: 22.09.2023

your contact persons:
Thorsten Helbig
Regina Wörz

fon: +49 (0)831/960 878-0
fax: +49 (0)831/960 878-99
e-mail: info@DRRR.de

Deutsches Referenzbüro für Ringversuche und
Referenzmaterialien GmbH
Reinhartser Straße 31 D-87437 Kempten
fon: +49 (0)8 31/960 878-0
fax: +49 (0)8 31/960 878-99
e-Mail: info@DRRR.de
website: www.DRRR.de

accounting details:
VAT-no DE254613132
Raiffeisenbank im Allgäuer Land
BIC-Code: GENO DEF1DTA
IBAN: DE94 7336 9264 0000 1023 50

place of business: Kempten
commercial registry: HRB 9496
local court: Kempten
managing director:
Dr. rer. nat. Ulrich Leist
Thorsten Helbig M.Eng.

CERTIFICATE FOR PARTICIPATION

DRRR Proficiency Testing

The participant

Institut für Galvano- und Oberflächentechnik Solingen GmbH
& Co. KG
Grünwalder Str. 29-31
42657 Solingen
Germany

Customer number: 12455

lab code number: 8

gets for the above mentioned quantitative proficiency
testing the following valuation:

excellent performance

To the above mentioned proficiency testing the corresponding report contains the
statistical evaluations.

Kempton, 22.09.2023



Thorsten Helbig

Valuation:

If the mean of z'-scores of all evaluated
results is smaller than 2 or equal and
single z'-scores are smaller than 2 or
equal you will get the valuation: „excellent
performance“

If the above criteria for the rating "excellent
performance" are not fulfilled, you will
receive the rating: "participated".

Summary of your quantitative lab performance according to the reference method(s)

For your company

Institut für Galvano- und Oberflächentechnik Solingen GmbH & Co. KG

SUMMARY

customer number: 12455
lab code number: 8
number of z'-scores: 4
number of z'-scores > 2: 0

Valuation:

If the mean of z'-scores of a parameter is smaller than 2 or equal you will get the valuation:
"You performed very well. Keep your performance."

If the mean of z'-scores of a parameter is smaller than 2 or equal but at least one single z'-score is higher than 2 you will get the valuation:
"You performed well. In particular cases you showed potential for improvement."

If the mean z'-score of a parameter is higher than 2 you will get the valuation:
"You showed potential for improvement of your performance."

parameter	number of z'-scores:	number of z'-scores > 2:	mean of z'-scores:	Valuation:
Mass loss	1	0	1,08	You performed very well. Keep your performance.
Delamination (lengthwise)	1	0	0,75	You performed very well. Keep your performance.
Blistering (quantity)	1	0	1,77	You performed very well. Keep your performance.
Blistering (size)	1	0	0,00	You performed very well. Keep your performance.

In this summary all your z'-score are selected for the evaluation. The z'-scores refer to the reference method(s). For routine reports we do not generate a performance summary for all used methods. In particular cases we can generate you a special performance summary with your used method.