

z'-score-evaluation of proficiency testing RVEP 230500 Corrosion cycle test DBL 7381.10 (KWT 1 steel)

Evaluation of the z'-score which you would have achieved in the proficiency testing based on your subsequently submitted data.

contact person: MARTA GARCÍA

company: LABORATORIO DE ENSAYOS DE CORROSIÓN, S.L
 Arabako Industrialdea Parque Empresarial
 Jundiz (Zona 6) C/ Uzbina 24, Pab. E-11
 1015 VITORIA-GASTEIZ
 Spain

The z'-score is calculated with rounded values therefore minimal deviation may arise on the second decimal place in comparison to the proficiency testing report.

customer number: 11112

This z'-score evaluation refers to the Proficiency testing: 230500 Corrosion cycle test DBL 7381.10 (KWT 1 steel)

lab code in proficiency testing: 7

test items: Sample 1 | RM CP W M KWT 3 | Steel sheet metal bright (CED)

parameter	unit	sample	individual results				method description	mean sample	z'-score
Coating thickness (KTL) - normal condition	µm	Sample 1: Steel sheet metal bright (CED)	20,50	20,60	20,90	20,30	DBL 7381 (MBN 10494-1) magnet-inductive ISO 2808 / ISO 2178	20,58	-0,16
Cross-cutting GT - normal condition	rating	Sample 1: Steel sheet metal bright (CED)	0,0	0,0	0,0	0,0	DBL 7381 (MBN 10494-5) Multi-blade cutting tool	0,00	0,00
Overall damage - normal condition	rating	Sample 1: Steel sheet metal bright (CED)	2,0	2,0	2,0	2,0	DBL 7381 (MBN 10494-5)	2,00	0,00
Surface corrosion Ri	rating	Sample 1: Steel sheet metal bright (CED)	0,0	0,0	0,0	0,0	DBL 7381 (MBN 10494-6)	0,00	0,00
Edge corrosion (outside, above)	rating	Sample 1: Steel sheet metal bright (CED)	2,0	2,0	2,0	1,0	DBL 7381 (MBN 10494-6)	1,75	1,27
Edge corrosion (inside, above)	rating	Sample 1: Steel sheet metal bright (CED)	2,0	1,0	2,0	1,0	DBL 7381 (MBN 10494-6)	1,50	1,21
Edge corrosion (inside, below)	rating	Sample 1: Steel sheet metal bright (CED)	1,0	1,0	1,0	0,0	DBL 7381 (MBN 10494-6)	0,75	-0,61
Edge corrosion (outside, below)	rating	Sample 1: Steel sheet metal bright (CED)	2,0	1,0	2,0	2,0	DBL 7381 (MBN 10494-6)	1,75	1,47
Weld seam corrosion SR	rating	Sample 1: Steel sheet metal bright (CED)	0,5	1,0	0,0	1,0	DBL 7381 (MBN 10494-6)	0,63	-0,92
Subsurface corrosion U/2	mm	Sample 1: Steel sheet metal bright (CED)	0,38	0,23	0,26	0,25	DBL 7381 (MBN 10494-6)	0,28	-1,16
Scratch test K	rating	Sample 1: Steel sheet metal bright (CED)	0,5	0,5	0,5	0,5	DBL 7381 (MBN 10494-5)	0,50	0,00
Cross-cutting GT	rating	Sample 1: Steel sheet metal bright (CED)	0,0	0,0	0,0	0,0	DBL 7381 (MBN 10494-5) Multi-blade cutting tool	0,00	0,00
Flange corrosion FR opened after test end	rating	Sample 1: Steel sheet metal bright (CED)	4,0	4,0	4,0	4,0	DBL 7381 (MBN 10494-6)	4,00	0,00
Edge corrosion (round edge 1)	rating	Sample 1: Steel sheet metal bright (CED)	0,0	0,0	0,0	0,0	DBL 7381 (MBN 10494-6)	0,00	0,00
Edge corrosion (round edge 2)	rating	Sample 1: Steel sheet metal bright (CED)	0,0	0,0	0,0	0,0	DBL 7381 (MBN 10494-6)	0,00	0,00
Edge corrosion (round edge 3)	rating	Sample 1: Steel sheet metal bright (CED)	0,0	0,0	0,0	0,0	DBL 7381 (MBN 10494-6)	0,00	0,00
Loss of mass	g/m ²		157,4	159,4	158,8	158,0			
Execution corrosion cycle test	-	Sample 1: Steel sheet metal bright (CED)	Variable climate chamber (ISO 11997-1) used?				Yes		

collected data from above mention Proficiency Testing from Sample 1								
Coating thickness (KTL) - normal condition	µm	Sample 1: Steel sheet metal bright (CED)	X _{PT}	20,77	SDPA	1,11	S _M	0,47
Cross-cutting GT - normal condition	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,00	SDPA	0,50	S _M	0,00
Overall damage - normal condition	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	2,00	SDPA	0,50	S _M	0,00
Surface corrosion Ri	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,00	SDPA	0,50	S _M	0,00
Edge corrosion (outside, above)	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	1,10	SDPA	0,50	S _M	0,10
Edge corrosion (inside, above)	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	1,00	SDPA	0,40	S _M	0,10
Edge corrosion (inside, below)	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	1,00	SDPA	0,40	S _M	0,10
Edge corrosion (outside, below)	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	1,00	SDPA	0,50	S _M	0,10
Weld seam corrosion SR	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,90	SDPA	0,30	S _M	0,00
Subsurface corrosion U/2	mm	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,64	SDPA	0,31	S _M	0,02
Scratch test K	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,50	SDPA	0,50	S _M	0,00
Cross-cutting GT	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,00	SDPA	0,50	S _M	0,00
Flange corrosion FR opened after test end	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	4,00	SDPA	0,70	S _M	0,00
Edge corrosion (round edge 1)	rating	Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,00	SDPA	0,50	S _M	0,00
Edge corrosion (round edge 2)		Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,00	SDPA	0,50	S _M	0,00
Edge corrosion (round edge 3)		Sample 1: Steel sheet metal bright (CED)	X _{PT}	0,00	SDPA	0,50	S _M	0,00
Loss of mass			X _{PT}		SDPA		S _M	
Execution corrosion cycle test		Sample 1: Steel sheet metal bright (CED)	X _{PT}		SDPA		S _M	

SDPA = standard deviation for proficiency assessment
X_{PT} = assigned value
S_M = standard deviation of the material homogeneity

The participant

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gets for the above mentioned z'-score evaluation the following valuation:

excellent performance

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".



person in charge: Thorsten Helbig
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