

Project: 20180001

Date: 08.01.2018

Würth Industrie Service
GmbH & Co. KG
Industriepark Würth
Drillberg
97980 Bad Mergentheim



Reference No.: 20180001
Item code: 414641040
Item description: SCR-HEX-ISO4014-10.9-(ZFSHL)-M10X40
Batch: 4304031214
Supplier: -

Inspector: Mr. Caliper
Department: TQL
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Test according to: DIN EN ISO 9227
Testing method: NSS test
Surface: ZFSHL

Inspection specification: Customer specification
pH-value: 6,60
Last calibration: 07.2017

Investigation report

1) Object of investigation

Number of samples:	5
Specimen preparation:	<input type="checkbox"/> Samples tested as supplied <input checked="" type="checkbox"/> Samples prepared: samples were ground on the screw head with sandpaper (180 grain) to cause faster corrosion.
Abnormality of the samples:	None
Start of testing:	05.01.2018
End of testing:	08.01.2018
Target test duration:	720 h
Failure criterion:	720 h RR; evaluation of the head of the article without bearing surface. Abortion of the test when RR is clearly visible.

2) Scope of investigation

Time interval of checks:	Usually every 24 hours
Interruptions of testing:	<input checked="" type="checkbox"/> no <input type="checkbox"/> yes
Remarks:	None

3) Result

All tested samples show significant base metal corrosion on the grinded screw head after 72 h of testing.

4) Observations

time [h]	RR	remarks
24	☒	5/5 slight RR
48	☒	5/5 increased RR
72	☒	5/5 significant RR, end of testing

5) Documentation



Figure 1: test duration: 0 h, overview, sample 1-5



Figure 2: test duration: 72 h, overview, sample 1-5

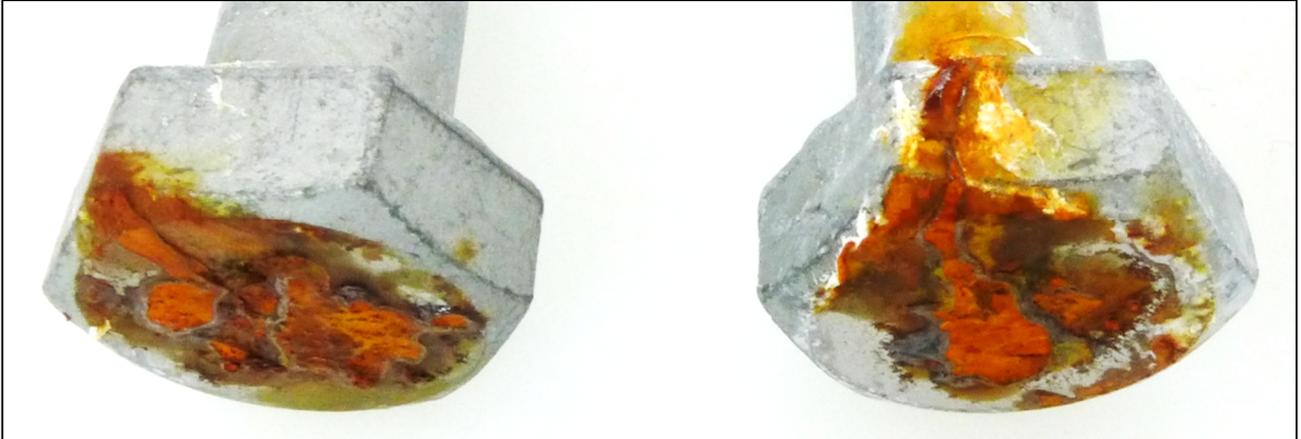


Figure 3: test duration: 72 h, detail, sample 1 and 2



Figure 4: test duration: 72 h, detail, sample 3 and 4



Figure 5: test duration: 72 h, detail, sample 5