TEST REPORT

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SHIN2503000511CM02
Verification:
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No. : SHIN2503000511CM02_EN

Date : 2025-04-01

CUSTOMER NAME: NANJING EK METALWORK CO., LTD

ADDRESS: NO.2 GAOXIONG ROAD, LUHE DISTRICT, NANJING CITY, CHINA.

Sample Name : DROP FORGED SWIVEL COUPLER

Material : Ø48.3

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

Date of Receipt : 2025-03-13

Testing Period : 2025-03-13 ~ 2025-04-01

Test result(s) : For further details, please refer to the following page(s)

(Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd..

Xander Yang

Xander Yang

Authorized signatory

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TEST REPORT

No. : SHIN2503000511CM02_EN

Date : 2025-04-01

Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Slipping Force	EN 74-1:2022 Clause 7.2.1	See Result	Pass
2	Failure Force	EN 74-1:2022 Clause 7.2.2	See Result	Pass

Note: Pass : Meet the requirements;
Fail : Does not meet the requirements;
N/A : Not Apply to the judgment.

Original Sample Photo(s):



View 1



View 2

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TEST REPORT

No. : SHIN2503000511CM02_EN

Date : 2025-04-01

1. Test Item: Slipping Force

Test Method: EN 74-1:2022 Clause 7.2.1

Test Condition:

Specimen: Swivel coupler, Class A, 10pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Slipping Force	$\triangle_1 \leq 7mm$, $F_{s,5\%} = 10.7kN$	$\triangle_1 \leq 7mm$, $F_{s,5\%} \geq 7.0kN$	Pass
	$F_s = 20.0kN$, $\triangle_2 < 1mm$	$1mm \leq \triangle_2 \leq 2mm$, $F_{s,5\%} \geq 10.0kN$	

Note:

1) $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
2) Specification of tube for slipping force: Steel tube of Φ48.3mm ×3.2mm (wall thickness)
3) Please see Annex A for details of test results.

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Annex A Details of Test Results

Specimen No.	F_s (kN, $\triangle_1$=7mm)	F_s (kN, 1mm≤$\triangle_2$≤2mm)
1	11.81	F_s=20.0kN, $\triangle_2$<1mm
2	13.47	F_s=20.0kN, $\triangle_2$<1mm
3	12.53	F_s=20.0kN, $\triangle_2$<1mm
4	11.04	F_s=20.0kN, $\triangle_2$<1mm
5	12.58	F_s=20.0kN, $\triangle_2$<1mm
6	12.39	F_s=20.0kN, $\triangle_2$<1mm
7	13.07	F_s=20.0kN, $\triangle_2$<1mm
8	11.21	F_s=20.0kN, $\triangle_2$<1mm
9	12.62	F_s=20.0kN, $\triangle_2$<1mm
10	11.87	F_s=20.0kN, $\triangle_2$<1mm
$F_{s,5\%}$	10.7	-

Note: In accordance with EN 74-1:2022, the test can be ended when the test load reached twice the specified F_s given in Table 8 of EN 74-1:2022.

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检验检测专用章 Inspection & Testing Services

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd. Commercial Construction National Laboratory

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TEST REPORT

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Date : 2025-04-01

2. Test Item: Failure Force

Test Method: EN 74-1:2022 Clause 7.2.2

Test Condition:

Specimen: Swivel coupler, Class A, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Failure Force	$F_{f,5\%}/\gamma R2$=39.8kN	$F_{f,5\%}/\gamma R2 \geq$14.0kN	Pass

Note:

1) $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
2) $\gamma R2$=1.25 according to EN 74-1.
3) Specification of steel bar for failure force: Steel bar of Φ48.3mm.
4) Please see Annex B for details of test results.

Annex B Details of Test Results

Specimen No.	F_f (kN)
11	52.05
12	57.56
13	54.36
14	57.69
15	57.75
$F_{f,5\%}/\gamma R2$	39.8

The test report shall only be used for clients' scientific research, teaching, internal quality control, product research and development, etc… and just for internal reference.

Unless otherwise stated, this report provides a declaration of conformity according to whether the test results are within the specified limits or specifications without considering the measurement uncertainty.

********End of report********

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