TEST REPORT

No. : SHIN2309001495CM02_EN

Date : 2023-09-26

Scan to see the report

SHIN2309001495CM02

Verification: check.sgsonline.com.cn

CUSTOMER NAME: [redacted]

ADDRESS: [redacted], NORGE

Sample Name	:	SWIVEL COUPLER
Product Specification	:	48.3 / S22
Product or Lot No.	:	ST23-07
Manufacturer	:	NANJING EK METALWORK CO LTD
Buyer	:	[redacted]

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.

****

SGS Ref. No.	:	NJIN2308002251ML02
Date of Receipt	:	2023-09-21
Testing Period	:	2023-09-21 ~ 2023-09-26
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..

王支援 Ziven Wang

Ziven Wang
Authorized signatory

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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
3	Indentation	EN 74-1:2022 Clause 7.5	See Result	Pass

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

Original Sample Photo(s):



View 1



View 2

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TEST REPORT

No. : SHIN2309001495CM02_EN

Date : 2023-09-26

1. Test Item: Slipping Force

Test Method: EN 74-1:2022 Clause 7.2.1

Test Condition:

Specimen: Swivel coupler, Class B, 10pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Slipping Force	$\triangle_1 \leq 7mm$, $F_{s,5\%}$ =12.9kN	$\triangle_1 \leq 7mm$, $F_{s,5\%} \geq 10kN$	Pass
	F_s=30.0kN, $\triangle_2 < 1mm$	$1mm \leq \triangle_2 \leq 2mm$, $F_{s,5\%} \geq 15kN$	

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	14.88	F_s=30.0kN, $\triangle_2$<1mm
2	14.04	F_s=30.0kN, $\triangle_2$<1mm
3	13.09	F_s=30.0kN, $\triangle_2$<1mm
4	14.98	F_s=30.0kN, $\triangle_2$<1mm
5	14.18	F_s=30.0kN, $\triangle_2$<1mm
6	15.72	F_s=30.0kN, $\triangle_2$<1mm
7	14.08	F_s=30.0kN, $\triangle_2$<1mm
8	15.01	F_s=30.0kN, $\triangle_2$<1mm
9	13.88	F_s=30.0kN, $\triangle_2$<1mm
10	15.23	F_s=30.0kN, $\triangle_2$<1mm
$F_{s,5\%}$	12.9	-

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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2. Test Item: Failure Force

Test Method: EN 74-1:2022 Clause 7.2.2

Test Condition:

Specimen: Swivel coupler, Class B, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Failure Force	$F_{f,5\%}/\gamma R2$=41.5kN	$F_{f,5\%}/\gamma R2 \geq$20.0kN	Pass

Note:

1. $F_{f,5\%}$: the 5% quantile for the 75% level of confidence.
2. γR2=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	54.20
12	56.88
13	57.70
14	60.12
15	56.03
$F_{f,5\%}/\gamma R2$	41.5

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