TEST REPORT

No. : SHIN2309001495CM01_EN
Date : 2023-09-26
Page: 1 of 7

Scan to see the report
SHIN2309001495CM01
Verification:
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CUSTOMER NAME: [redacted]
ADDRESS: [redacted], NORGE

Sample Name	:	DOUBLE 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.

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SGS Ref. No.	:	NJIN2308002251ML01
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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TEST REPORT

No. : SHIN2309001495CM01_EN

Date : 2023-09-26

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	Pull-apart Force	EN 74-1:2022 Clause 7.3	See Result	Pass
4	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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1. Test Item: Slipping Force

Test Method: EN 74-1:2022 Clause 7.2.1

Test Condition:

Specimen: Right angle coupler, Class BB, 10pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table 8	Conclusion
Slipping Force (BB)	$\triangle_1 \leq 7mm$, $F_{s,5\%}$ =17.1kN	$\triangle_1 \leq 7mm$, $F_{s,5\%} \geq 10.0kN$	Pass
	$1mm \leq \triangle_2 \leq 2mm$, $F_{s,5\%}$ =16.8kN	$1mm \leq \triangle_2 \leq 2mm$, $F_{s,5\%} \geq 15.0kN$	
Slipping Force (BB+BB)	$\triangle_1 \leq 7mm$, $F_{s,5\%}$ =39.2kN	$\triangle_1 \leq 7mm$, $F_{s,5\%} \geq 15.0kN$	Pass
	$1mm \leq \triangle_2 \leq 2mm$, $F_{s,5\%}$ =27.8kN	$1mm \leq \triangle_2 \leq 2mm$, $F_{s,5\%} \geq 25.0kN$	

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.

Annex A Details of Test Results

Slipping Force (BB)

Specimen No.	F_s (kN, $\triangle_1$=7mm)	F_s (kN, $1mm \leq \triangle_2 \leq 2mm$)
1	19.02	19.11
2	18.04	17.82
3	21.27	21.22
4	23.92	23.25
5	19.60	18.98
6	22.36	21.60
7	19.73	19.83

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8	19.42	19.68
9	20.37	18.26
10	22.55	21.73
$F_{s,5\%}$	17.1	16.8

Slipping Force (BB+BB)

Specimen No.	F_s (kN, $\triangle_1$=7mm)	F_s (kN, 1mm≤$\triangle_2$≤2mm)
11,12	43.43	37.13
13,14	40.00	30.28
15,16	44.14	31.76
17,18	44.84	29.99
19,20	43.13	35.25
21,22	40.25	36.83
23,24	45.13	32.77
25,26	42.38	34.62
27,28	41.74	30.70
29,30	43.62	31.23
$F_{s,5\%}$	39.2	27.8

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2. Test Item: Failure Force

Test Method: EN 74-1:2022 Clause 7.2.2

Test Condition:

Specimen: Right angle coupler, Class BB, 5pcs

Test Results:

Test Item	Test Result	Requirement in EN 74-1:2022 Table8	Conclusion
Failure Force	$F_{f,5\%}/\gamma R2$=64.6kN	$F_{f,5\%}/\gamma R2 \geq$45.0kN	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

Failure Force

Specimen No.	F_f (kN)
31	89.35
32	99.62
33	88.36
34	94.40
35	102.29
$F_{f,5\%}/\gamma R2$	64.6

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