

Inspection Report

(Non-negotiable)

Inspector: **Julyan Shi**

Inspection location: **Wuxi City, Jiangsu Province, China**

Date of inspection: **Jun.22, 2022**



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SGS-CTS Standards Technical Services (Tianjin) Co., Ltd.
Industrial Service

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1. Background information

SGS order No.:	IN-TJ-5301-22154				
Coordinator:	Lucy Lu		Telephone:	022-59995333	
Description of commodity (Name ,Model ,Quantity ...) As PO declared					
SEAMLESS SQUARE PIPE ASTM A312M TP 316L / 18pcs					
Buyer (Name, Address...)					
Seller (Name, Address...)					
ADVANCED METALS CO., LTD Tongda International Building Hi-tech Development Zone, Xi'an, Shaanxi. 710065, China					
PI	/				
PL	/				
CI	AMC-ST-22101 MAY 26, 2022				
Nature of inspection:	Item	Satisfactory		Non conforming	
	Quantity check (not include weight check)	●			
	Item	Satisfactory	Non conforming	Rejected	Subject to buyer's evaluation
	Visual check				●
	Marking check				●
	Dimension check				●
	Witness PMI	●			
	Document review				●

2. Instrument

During the inspection, the following instrument calibration status has been checked for inspection:

No.	Name	ID No.	Model/Specification	Calibrated ^{[1][2]} (Yes/No/NA)	Certificate NO. (Optional)
1	Micrometer	IND-TJ-QF-40	(0~25) mm	Yes	---
2	Steel tape	IND-TJ-JC20m-128	(0~20) m	Yes	---
3	Vernier caliper	IND-TJ-KC-83	(0~300) mm	Yes	---



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4	Spectrometer	821822	/	Yes	HXhy2022-00115
5	Square ruler	/	/	No	/

[1] Calibrated

--- "Yes" means the instrument was calibrated and now is in the period of validity.

--- "No" means the instrument should be calibrated, in fact it was never calibrated or not calibrated before the expiry date.

--- "NA" means the instrument does not need to be calibrated in the view of its function.

[2] All calibrated instruments must be provided the total pages copy of calibration certificate.

3. Quantity check

3.1. Reference documents:

→ CI NO. AMC-ST-22101 MAY 26, 2022

3.2. Method of quantity check

→ Quantity check by piece.

During the inspection, SGS inspector performed quantity check on site. All the cargos were found stored in workshop.

No.	Description	REQ. quantity	ACT. quantity
1	200 x 200 x 12 x 5.8 mtr lengths SMLS	18	18

3.3. Remark: The result of quantity check was in line with CI and acceptable.

4. Visual quality check

4.1. Sample size: as per requirement of client, 100%, total 18pcs.

4.2. Reference document:

→ CI NO. AMC-ST-22101 MAY 26, 2022

During the inspection, visual check was performed randomly which is available and reachable by SGS inspector on site. SGS inspector marked each square pipe by fragile sticker and numbered with 1, 2, 3, ...18.

The details please refer to below:

- Both internal and external surface of cargoes was smooth.
- Both ends edges without burrs.
- No oil stain was found on surface.
- Pipe with SGS number 7#: little scratch was found on external surface at one end. (Please refer to picture No. 9)
- Pipe with SGS number 8#: 2 scratches were found on external surface at one end. (Please refer to picture No. 10)
- Pipe with SGS number 11#: little pit was found on internal surface at one end. (Please refer to picture No. 11)



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- Pipe with SGS number 14#: pits were found on external surface at the middle of the pipe. (Please refer to picture No. 12 & 13)

Except above mentioned, no other defects such as cracks, deformation were found.

4.3. Remark: The result of visual quality check should be subjected to client's evaluation.

5. Marking check

5.1. Sample size: as per requirement of client, 100%, total 18pcs.

5.2. Reference document:

→ CI NO. AMC-ST-22101 MAY 26, 2022

During the inspection, marking check was performed by SGS inspector on site. Stencil marking on external surface at one end was found. The details please refer to below:

SPECIALTY METALS 316L 200MMx200MMx12MM HEAT NUMBER: L030651

5.3. Remark: The result of marking check should be subjected to client's evaluation.

6. Dimension check

6.1. Sample size: as per requirement of client, 100%, total 18pcs.

6.2. Reference document:

→ CI NO. AMC-ST-22101 MAY 26, 2022

During the inspection, SGS inspector performed dimension check on site. SGS inspector marked on each pipe by fragile stickers and numbered 1, 2, 3... 18. The details please refer to below:

Size	Side length A (mm)	Side length B (mm)	WT (mm)	Length (mm)	Straightness (mm)	Perpendicularity (mm)
200x200x12x5800	199.82- 201.00	199.90- 201.50	11.43- 12.97	5813- 6112	1-4	0.5-1

Note: 1. The tolerance of wall thickness was $\pm 10\%$ provided by the client on site. The actual value of WT was acceptable.

2. The perpendicularity was measured by square ruler with no calibration certificate.

3. No tolerance for Side length, total length, straightness and perpendicularity was provided.

6.3. Remark: The result of dimension check should be subjected to client's evaluation.

7. Witness PMI

7.1. Sample size: as per requirement of client, 100%, total 18pcs.

7.2. Reference document:

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→ ASTM A312-2017

During the inspection, SGS inspector witnessed PMI test on site. The spectrometer shows chemical elements composition and shows the material result.

SGS No.	Fe%	Cr %	Mn %	Ni %	Mo
Req. value	/	16-18	≤2	10-14	2-3
1	69.52	16.52	1.13	10.17	2.00
2	69.74	16.28	1.05	10.27	2.06
3	69.15	16.65	1.15	10.36	2.07
4	69.37	16.49	1.08	10.25	2.09
5	69.58	16.40	1.18	10.24	2.04
6	69.28	16.59	1.15	10.28	2.04
7	69.36	16.48	1.08	10.26	2.10
8	69.53	16.56	1.09	10.25	2.05
9	69.65	16.23	1.14	10.31	2.04
10	69.43	16.57	1.15	10.18	2.04
11	69.89	16.15	1.12	10.19	2.05
12	69.74	16.43	0.99	10.20	2.04
13	69.38	16.30	1.23	10.36	2.10
14	69.66	16.39	1.06	10.27	2.02
15	69.68	16.49	1.04	10.08	2.02
16	69.48	16.35	1.21	10.25	2.05
17	69.50	16.52	1.15	10.15	2.04
18	69.42	16.44	1.07	10.38	2.05

Note: The required value was according to standard ASTM A312-2017.

7.3. Remark: The result of witness PMI was acceptable.

8. Document review

8.1. Sample size: as per requirement of client, 100%.

8.2. Reference document:

→ CI NO. AMC-ST-22101 MAY 26, 2022

During the inspection, 1 page of MTC was provided to review. The document number was 14080619, date on 2022.6.19. The MTC includes material grade, heat number, chemical composition, mechanical test result, all data was found in line with standard ASTM A312-2017.

8.3. Remark: The result of document review should be subjected to client's evaluation.



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9. Photo



Fig. 1 Quantity check



Fig. 2 Quantity check



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Fig. 3 Visual check



Fig. 4 Visual check



Fig. 5 Visual check



Fig. 6 Visual check



Fig. 7 Visual check



Fig. 8 Visual check



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Fig. 9 Visual check – little scratch 7#



Fig. 10 Visual check – 2 scratches 8#

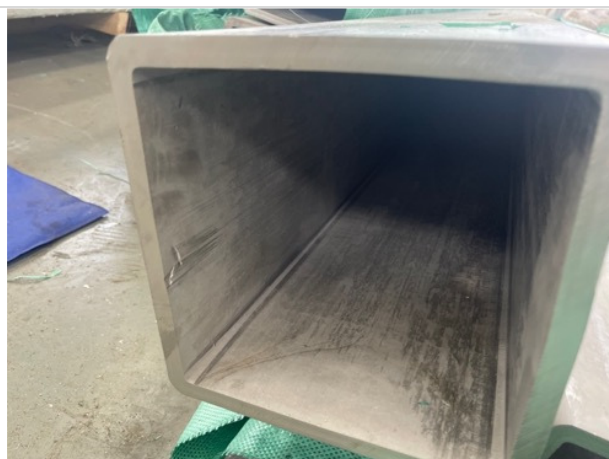


Fig. 11 Visual check – little pit 11#



Fig. 12 Visual check – pits 14#



Fig. 13 Visual check – pits 14#



Fig. 14 Dimension check



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Fig. 15 Dimension check



Fig. 16 Dimension check



Fig. 17 Dimension check



Fig. 18 Dimension check



Fig. 19 Dimension check



Fig. 20 Dimension check



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Fig. 21 Dimension check



Fig. 22 Dimension check



Fig. 23 Dimension check



Fig. 24 Dimension check



Fig. 25 Dimension check



Fig. 26 Dimension check



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Fig. 27 Dimension check

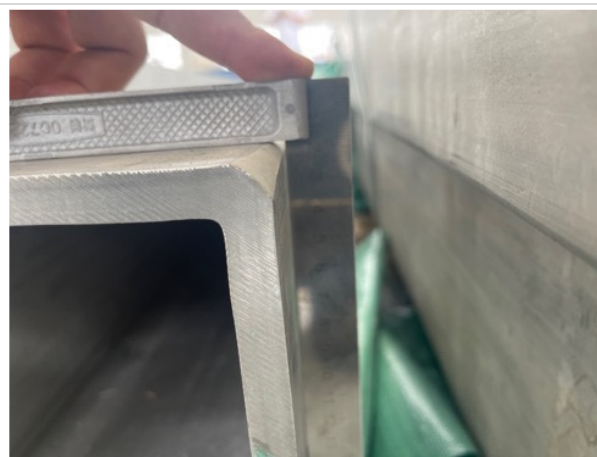


Fig. 28 Dimension check

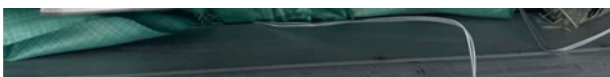
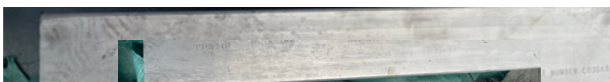


Fig. 29 Marking check



Fig. 30 Marking check



Fig. 31 Witness PMI

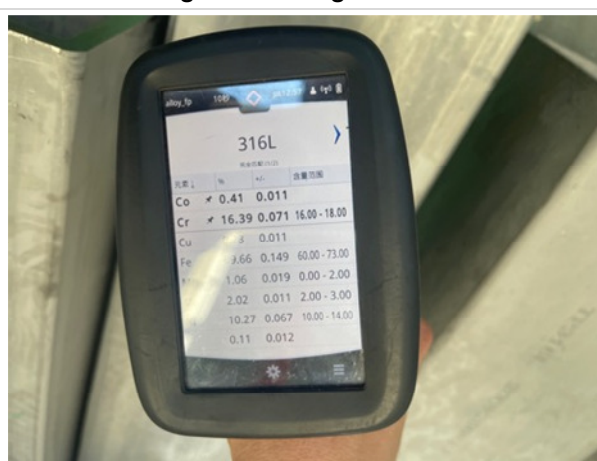


Fig. 32 Witness PMI



Fig. 33 Witness PMI



Fig. 34 Witness PMI



Fig. 35 SGS fragile sticker



Fig. 36 SGS fragile sticker

10. Timesheet

Date / Name	Time	Description	Hours
2022.06.22 Julyan Shi	08:00-10:30	Traveling	2.5
	10:00-15:00	Working	5
	15:00-16:30	Traveling	1.5
	20:00-22:00	Reporting	2
Total			11

Note: Both traveling time and reporting time is included.




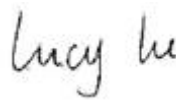

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Issued by:	Julyan Shi	Reviewed by:	Lucy Lu	Approved by:	Lynn Ma
Title or position:	Inspector	Title or position:	Coordinator	Title or position:	Inspection Manager
Date:	June 22, 2022	Date:	June 23, 2022	Date:	June 23, 2022

End of Report



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