

TEST REPORT

SGS Report No.	IN-NJ-5821-22135		
SGS Order No.	IN-TJ-5301-22154-UT		
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Client			
Client Contact Information	Contact Person	Michale Xin	
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	Email	/	
Object Tested	Seamless Square Pipes		
Testing Location	Wuxi City, Jiangsu Province, China		
Testing items	Results (Acceptable / Rejected/ Pending)		
Ultrasonic Testing	Acceptable		
Date of Testing	June 23, 2022	Inspector	Leo ZHANG



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Abnormal Items and Outstanding Issues

1. The corners of square pipes can not be scanned, these 4 corner areas were not included in the range of UT.
2. There were no pipe No. on the surface of square pipes, SGS inspector numbered and recorded these square pipes by themself.

Reference Documents

1. ASTM A578/A578M-17 Standard Specification for Straight-Beam Ultrasonic Examination of Rolled Steel Plates for Special Applications
2. Commercial Invoice No. AMC-ST-22101 dated MAY 16, 2022

Testing Narrative Summation

At the request of Specialty Metals, SGS inspector visited Wuxi City, Jiangsu Province, China on June 23, 2022 to carry out UT to Seamless Square Pipes.

1. Ultrasonic Testing

UT has been performed to 5pcs of Seamless Square Pipes based on the requirement of the client (18pcs in total, selected 5pcs to UT in randomly, the UT proportion is 25%), and no defect which goes beyond the acceptance criteria ASTM A578/A578M-17 level B has been found during this testing, the result of UT is acceptable.

Sample Name	Seamless Square Pipes	Product Specification	200mm x 200mm x 12mm L=5800mm
Material and Mark	ASTM A321M TP 316L	Product or Lot No.	/
Instrument Type /No.	EPOCH 650/NJ-NDT-B9	Testing Time	/
Probe Type	DA4P6×20F25	Testing Quantity	5 pcs
Block	Itself	Area Tested	The 4 flat sides of square except the corner areas
Couplant	Water/Oil	Surface Condition	Clean
Scanning Method	Along continuous parallel paths parallel to the major square pipe axis, on 75mm centers	Transfer Correction	0dB
Testing Standard	ASTM A578/A578M-17	Testing Sensitivity	B1 80% FSH
Acceptance Criteria	ASTM A578/A578M-17 Level B	Testing Temperature	32°C



SGS-CSTC Standards Technical Services Co., Ltd.
Nanjing Branch

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No.	Pipe No.	Heat No.	Defect No.	Thickness (mm)	Defect Depth (mm)	Defect Area (mm ²)	Reduction of back wall echo (%)	Result	Remark
1.	7#	L030651	/	12	/	/	/	Acc.	
2.	9#	L030651	/	12	/	/	/	Acc.	
3.	10#	L030651	/	12	/	/	/	Acc.	
4.	12#	L030651	/	12	/	/	/	Acc.	
5.	13#	L030651	/	12	/	/	/	Acc.	

Note:

Acc. — Acceptable	Rej. — Rejected
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Attached Photos



Fig. 1: Seamless Square Pipes



Fig. 2: Seamless Square Pipes Marking

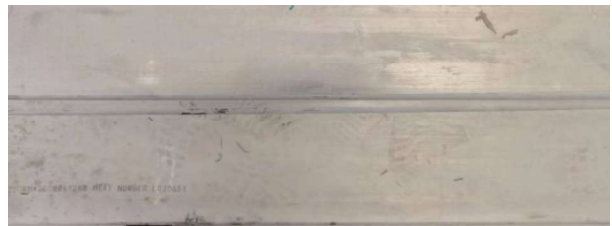


Fig. 3: Ultrasonic testing



Fig. 4: UT marking



Fig. 5: UT marking



Fig. 6: UT marking



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Fig. 7: UT marking



Fig. 8: UT marking

Remark: Photos are available upon request.



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Time Sheet

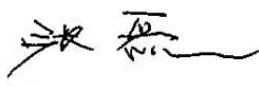
Used for Testing (Including Traveling and Reporting)	Date	Working Hours	Over Time
	June 23, 2022	8	
Total time charged		8	

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

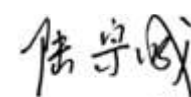
Remarks

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5. This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the result was not included.


Inspected by:


Leo Zhang

Reviewed by:


Joe Lu

Approved by:


Harry Zhang

Inspector

Technical Support

Authorized Signatory

Date: June 24, 2022

Date: June 27, 2022

Date: June 27, 2022



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