

TEST REPORT

No. : TM1101182

Date : Jan.25, 2011

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Kaveh Mobadel Industrial Company

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : Steel pipe
Spec : 5"(141.3*15.88mm)
Material : TP 347H
Quantity : 1
IO no. : 2010/CTS/101325
P/I no. : 89P57
Sgs ref no : IN-TJ-5404-11003-01
Date of Receipt : Jan.18, 2011
Test Period : Jan.18, 2011 to Jan.25, 2011
Test result(s) : For further details, please refer to the following page(s)

***** To be continued*****

Signed for and on behalf of
SGS-CSTC Standards
Technical Services (Tianjin)Co., Ltd.

Seaman Zhang
Materials Lab Engineer

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1. Test item: Chemical composition analysis

Test method: OES

Spec.	Element, %						
	C	Si	Mn	P	S	Ni	Cr
141.3*15.88mm	0.05	0.39	1.54	0.030	0.002	9.0	17.1
Requirement*, %	0.04-0.10	≤0.75	≤2.00	≤0.045	≤0.030	9.0-13.0	17.0-19.0
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note: * Specification in ASTM A376/A376M-02a (TP347H)

2. Test item: Tension test

Test method: ASTM A370-10

Test item	Result				Requirement*	Conclusion
	1	-----	-----	-----		
Yield strength, R _{p0.2} , MPa	247	-----	-----	-----	≥205	Pass
Tensile strength, R _m , MPa	610	-----	-----	-----	≥515	Pass
Elongation after fracture, (A _{50mm}) %	62.5	-----	-----	-----	≥35	Pass
Spec	141.3* 15.88	-----	-----	-----	-----	-----

Note: * Specified in ASTM A376/A376M-02a (TP347H)

3. Test item: Flattening test

Test method: ASTM A999/A999M-04a

Test item	Result				Requirement*	Conclusion
	1	-----	-----	-----		
Flattening test H=93mm	OK	-----	-----	-----	No cracks or breaks on the surfaces	Pass
Spec	141.3* 15.88	-----	-----	-----	-----	-----

Note: * Specified in ASTM A376/A376M-02a & ASTM A999/A999M-04a.

***** To be continued*****

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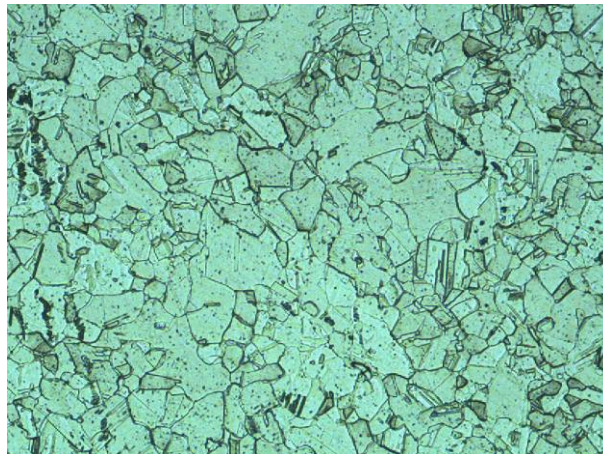
4. Test Item: Average grain size

Reference standard: ASTM E112-1996 (2004) e2

Result:

Material	Average Grain size	Requirement *	Conclusion	Note
TP347H	7.0	≤ 7.0	Pass	Pic.1

Note: * refers to ASTM A376-02a-6.4



Pic.1 200X

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