

TEST REPORT

No. : TM1101267

Date : Jan.30, 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
Material : GR P9
Spec / Sample No. : 4" (114.3x6.02mm)
Quantity : 1
Sgs ref no : IN-TJ-5404-11003-02
Buyer : Kaveh Mobadel Industrial Company
Date of Receipt : Jan.26, 2011
Test Period : Jan.26, 2011 to Jan.30, 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: ASTM E415-08

Spec.	Element,%						
	C	Si	Mn	P	S	Cr	Mo
4"(114.3×6.02mm)	0.11	0.38	0.33	0.015	0.003	8.85	0.90
Requirement*,%	≤0.15	0.25~1.00	0.30~0.60	≤0.025	≤0.025	8.00~10.00	0.90~1.10
Conclusion	Pass	Pass	Pass	Pass	Pass	Pass	Pass

Note:*specified in ASTM A335/A355M-06(P9).

2. Test item: Tension test

Test method: ASTM A370-10

Test item	Result				Requirement*	Conclusion
	1	-----	-----	-----		
Yield strength, R _{p0.2} , MPa	344	-----	-----	-----	≥205	Pass
Tensile strength, R _m , MPa	505	-----	-----	-----	≥415	Pass
Elongation after fracture, (A _{50mm}) %	36.0	-----	-----	-----	≥27	Pass
Spec	φ 141.3* 6.02	-----	-----	-----	-----	-----

Note: * Specified in ASTM A335/A335M-06 (Grade P9)

3. Test item: Flattening test

Test method: ASTM A999/A999M-04a

Test item	Result				Requirement*	Conclusion
	1	-----	-----	-----		
Flattening test H=52mm	OK	-----	-----	-----	No cracks or breaks on the surfaces	Pass
Spec	φ 141.3* 6.02	-----	-----	-----	-----	-----

Note: * Specified in ASTM A335/A335M-06 & ASTM A999/A999M-04a.

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