



中国认可
检测
TESTING
CNAS L3840

衡阳华菱钢管有限公司检验检测中心
Test Center of Hengyang Valin Steel Tube Co., Ltd.

TEST REPORT 检测报告

Test No (编号): 151216208

Contract No (合同号): 2131000362-2

Grade of Steel (钢级): L360NS PSL2

Sample Size (规格): Φ 168.3*11mm

Type of Pipe (钢管类型): Seamless

Test Method (测试方法): SSC Susceptibility

地址: 湖南衡阳市大栗新村 10 号
Address: No.10, Dalixincun, Hengyang, Hunan, China

传真: 0734-8875123
Fax

电话: 0734-8875123
Telephone

邮编: 421002
Post code

SSC Test Report

SSC 检测报告

No: 151216208

Page 1 of 3

Original of Specimen 送检单位	180 Branch	Contract No. 合同号	2131000362-2
Address 单位地址	No. 10 Dalixincun, Hengyang, Hunan P.R. CHINA 421002 湖南省衡阳市大栗新村 10 号 421002		
Grade of steel 钢号	L360NS	Product specification lever 产品规范等级	PSL2
Lot No. 批号	6EX213041	Heat No. 炉号	1535630V
Quantity 数量	1 set (3pcs)	Specimen State 样品状态	As Standard Requirement
Test Properties 检测项目	SSC Susceptibility	Method of test for degreasing 脱脂测试方法	Wipe
Test Standard 检测标准	ASTM G39-99(2011)		
Test Conclusion 检测结论	Applied stress is 304.8MPa (381MPa×80%) , and test solution A consist of 5.0 wt% sodium chloride and 0.5 wt% glacial acetic acid dissolved in distilled water. Each test has three specimens. There is no visual surface cracks are observed on all specimens after completing the 720-hour test duration.		
Special-Stamp for Test Report 检测专用章	Collected by 汇总	王 鸿	
	Certified by 批准	[Signature]	
	Issue Date 签发日期	2015.12.16	

SSC Test Report (Annex)

SSC 检测报告 (附件)

No: 151216208

Page 2 of 3

No: 151216208

Test Result
检测结论

Page 2 of 3

Grade of steel 钢号	L360NS PSL2		Size 规格	Φ 168.3*11mm
Lot No. 批号	6EX213041		Heat No. 炉号	1535630V
Test Properties 检测项目	SSC Susceptibility		Specimen No. 试样编号	w1021-1,w1021-2, w1021-3
Test Standard 检测标准	ASTM G39-99(2011)			
Dimension of Specimens 试样尺寸	The four-point loaded specimen holder is shown in Fig.1. Test specimens shall be taken from the pipe with the longitudinal axis. The gauge of test specimens is 115mm×15mm×5mm.			
Test Conditions 试验条件	Temperature 温度	(23-25)°C	Load Stress 加载应力	304.8MPa
	Deaerated Gas 除氧气体	High-purity N ₂	Test Gas 试验气体	H ₂ S
	H2S concentration H2S 浓度	≥2300ppm	Test Time 试验时间	720 hours
	Degreased 脱脂	Prior to testing, the test specimens shall be degreased with ethanol and rinsed with acetone. The adequacy of the degreasing by the atomizer test in accordance with ASTM Standard F 21.		
	Test Solution 试验溶液	0.5wt% CH ₃ COOH and 5.0wt% NaCl in distilled water saturated with H ₂ S (NACE TM0177-2005solution A)		
	pH	2.71 (before introducing H ₂ S 通入 H ₂ S 之前)		
		3.89 (after test 试验结束后)		
Test Equipment 试验仪器	SSC Test Equipment, using four-point loaded specimen holder			
Load Displacement Calculation 加载位移计算	$\sigma = 12EtY_m / (3H^2 - 4A^2)$ Actual Y_m is 350.4MPa; The deflection value are 0.97 mm, 0.97 mm and 0.97 mm. Where: σ —maximum tensional stress, MPa; E modulus of elasticity, MPa; t—specimen thickness, mm; Y_m—maximum deflection between outer supporting points, mm; H distance between outer supports, mm; A—distance between inner and outer supporting points, mm.			

Test Result
检测结论

No visual surface cracks are observed on all specimens after completing the 720-hour test duration (Figure 2).

Page 2 of 3

168.3*11mm

1535630V

21-1, w1021-2,

w1021-3

in Fig.1. Test
linal axis. The

.8MPa

l₂S

ours

degreased
lequacy of
ance with

led water
tion A)

前)

der

7 mm

s of
ection
outer
ints.

Test by (检测人): 刘俊伟

Reviewed by (审核人): 郑秋艳

Test Date (检测日期): Nov.13 2015~Dec.13, 2015

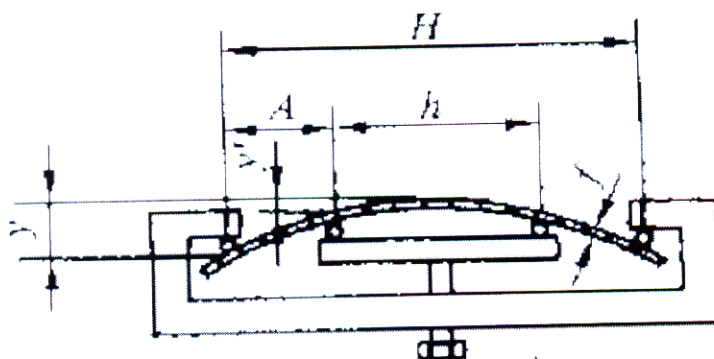


Fig. 1 The four-point loaded specimen holder

图 1 四点弯曲夹具



W1021 6EX213041 15356630V

Fig.2 Morphology of the specimen surfaces

图 2 试验后四点弯曲表面形貌