

无锡市华友特钢有限公司
Wuxi Huayou Special Steel Co., Ltd.



产品质量证明书

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MILL TEST CERTIFICATE
(ACCORDING TO EN10204 3.1)

订货单位 CUSTOMER	SALZGITTER MANNESMANN INTERNATIONAL (HK) LIMITED				证书号 CERTIFICATE NO.	CX140820-11		制造方法 MAKING METHOD	热轧 HOT-ROLLED		
货描 DESCRIPTION	PRIME SEAMLESS CARBON STEEL PIPE NORM NACE BLACK LACQUER COATING, CAPS ON BOTH ENDS, BEVELED ENDS				PO NO.	SMHK-CAN-14-1144		交货状态 DELIVERY CONDITION	热轧态 AS-ROLLED		
产品名称 PRODUCT	无缝钢管 SEAMLESS CARBON STEEL PIPE				合同号 CONTRACT NO.	HYSALZ14053001C		热处理工艺 HEAT TREATMENT	-		
标准 SPECIFICATION	ASTM A53/A106/API 5L PSL1				钢级 GRADE	B/X42		出货日期 DATE OF ISSUE	2014.08.20		
外径 O. D.	457.2mm 18"	壁厚 W. T.	9.53mm SCH STD	长度 LENGTH	12m	总支数 TOTAL PIECES (PCS)	58	总米数 TOTAL METERS	696m	总重量 (吨) TOTAL WEIGHT (TONS)	73.196

序号 NO.	生产批号 WORK NO.	炉号 HEAT NO.	支数 PCS	化 学 成 份 % CHEMICAL COMPOSITION																非金属夹杂物 (级) Non-Metallic Inclusions (Grade)			
				*1	碳 C	硅 Si	锰 Mn	磷 P	硫 S	铜 Cu	镍 Ni	铬 Cr	钼 Mo	钒 V	硼 B	铌 Nb	钛 Ti	铋 Bi	砷 As	A	B	C	D
				Max	0.28	-	1.06	0.030	0.030	0.40	0.40	0.40	0.15	0.08									
1	XM14589341	Y55717	58	H	0.19	0.24	0.53	0.015	0.013	0.011	0.006	0.006	0.002	0.002									

同上序号 NO.	拉伸试验 TENSILE TEST 标距 GAUGE LENGTH (50.8mm)			冲击试验 IMPACT TEST Akv (J)				硬度试验 HARDNESS TEST	水压试验 HYDROSTATIC TEST	无损探伤检验 N. D. E.		金相试验 METALLOGRAPHIC EXAMINATION		
	*2 *3	抗拉强度 T. S. MPa	屈服强度 Y. S. *4 MPa	伸长率 E. L. A %	试验温度 TEMPERATURE OF TEST 10×10×55 (20℃)					涡流探伤 E. T.	超声波探伤 U. T.	显微组织 MICROSTRUC- TURE	晶粒度 (级) GRAIN SIZE	
	Max Min	- 415	- 290	- 28	1	2	3			AVG				
1	L	475/470	300/315	30/31	-	-	-	-	---	---	合格 GOOD	合格 GOOD		

外观和尺寸 VISUAL & DIMENSION	合格 GOOD	压扁试验 FLATTENING TEST	---	弯曲试验 BENDING TEST	合格 GOOD	扩口试验 EXPAND TEST	晶间腐蚀试验 Intergranular Corrosion Test
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注释 NOTES *1、H: HEAT (LADLE) ANALYSIS; P: PRODUCT ANALYSIS. *2、试样尺寸 SIZE : 弧形试样 STRIP T×38.1mm
*3、试验方向 ORIENTATION : L=纵向 LONGITUDINAL. *4、SY=0.2%OFFSET.
WE HEREBY CONFIRM THAT OUR PRODUCTS ARE MADE WITH MATERIALS WHICH ARE FREE FROM RADIATION CONTAMINATION

会验者 SURVEYOR	兹证明本表所列产品, 均依标准规定制造、取样、试验和检验, 并符合标准及合同要求。 WE HEREBY CERTIFY THAT THE MATERIALS DESCRIBED HEREIN HAVE BEEN MANUFACTURED, SAMPLED, TESTED AND INSPECTED IN ACCORDANCE WITH THE CUSTOMER'S SPECIFICATION (S), AND THAT THEY SATISFY THE REQUIREMENTS.	检验员 INSPECTOR	潘良亭	审核人 CHIEF	珍李
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