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产品质量证明书
Materical Test Certificate

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产品 Product	接箍 Coupling	标准 Standard	API 5CT 10th/5B 16th	制造方法 Process of Manufacture	热轧无缝 Hot Rolling Seamless
规格 Size	9-5/8"	钢级Grade	K55	热处理 Heat Treatment	N
外径 OD	244.48 mm	壁厚 WT	8.94 mm	理论重量 Weight	
螺纹Thread	BC	PSL	1	签发日期 Issue Date	

机械性能 (Mechanical properties)

拉伸试验 Tensile Test (21℃)			冲击试验 Impact Test (0℃)			全壁厚硬度试验Hardness Test (21℃)	
抗拉强度 Tensile strength	屈服强度 Yield Strength	伸长率 Elongation	单个冲击值 Impact Value J	平均冲击值 AVG Impact J	剪切比 Percent Shear Area %	硬度值 HRC Hardness	平均硬度值 HRC Average Hardness
TS MPa	YS (Rt0.5) MPa	E (2in) %	≥21	≥21	%	≤ 23	≤ 23
690	415	29	- - -	-	—	- - -	-
690	410	30	- - -	-	—	- - -	-

试样要求Specimen Requirement: 试样类型Specimen Number φ12.7mm 标距Gauge Length50.8mm 横向T 尺寸Size 10x10x55mm

化学成分 (Chemical Composition) (%)

炉号 Heat No.	类型Type	C	Si	Mn	S	P	Cr	Ni	Cu	Mo	Al	V
		-	-	-	≤0.030	≤0.030	-	-	-	-	-	-
[redacted]	熔炼分析 Heat Analyses (H)	0.37	0.27	1.3	0.006	0.012						
[redacted]	产品分析 Product Analysis (P)	0.39	0.27	1.32	0.002	0.008						
[redacted]	产品分析 Product Analysis (P)	0.39	0.27	1.31	0.003	0.007						
[redacted]	熔炼分析 Heat Analyses (H)	0.35	0.23	1.28	0.005	0.011						-
[redacted]	产品分析 Product Analyses (P)	0.35	0.23	1.27	0.006	0.012						-
[redacted]	产品分析 Product Analyses (P)	0.35	0.23	1.28	0.005	0.011						-

检验项目 Items	轧制过程 Rolling process	管体无损 Pipe Body NDT	管端无损 Pipe end NDT	水压测试 Hydraulic press test	外观尺寸检查 Surface size
结果Result	Hot Rolling	UT (OK)	UT (Ok)	22Mpa/10S/OK	ok

备注Remark: Rectangular groove: groove length 40.00mm groove wide 0.8mm groove deep 10%T
矩形槽：槽宽 40.00mm 槽宽 0.8mm 槽深 10%T

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兹证明本表所列产品，均依标准规定制造，取样、试验和检验，并符合标准和合同要求。
We here certify that the material here in described has been manufactured, Sampled and tested in accordance with above standard and specification and s
requirement.

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