



天津市联众钢管有限公司
TIANJIN UNITED STEEL PIPE CO., LTD
CERTIFICATE OF PRODUCT QUALITY
产品质量证明书

NO. (编号): 1701101433

CODE (编码): LZ/CX14-1107D

| | | | | | | | | | | | | | | | | | |
|------------------|----------------------|--|---|--|--|--|--|--|--|--|--|--|--|------|---|---------------------|---------|
| CUSTOMER 订货单位 | E-STEEL, INC. | | We hereby certify that the material described here in has been manufactured and tested in accordance with above specifications and the results of all are acceptable. 兹为您单位制造之钢管，经本公司质量管理部门标准技术条件及合同检验合格，特此证明。 | | | | | | | | | | CERTIFICATE NO. 质检字 | QC01 | | | |
| PRODUCT 货物名称 | ERW ROUND STEEL PIPE | | STANDARD 检查依据 | | | | | | | | | | CAR NO. 车号 | | | | |
| M.P 制造工艺 | HPW | | API 5L GR. B/ASTM A53 GR. B | | | | | | | | | | HEAT TREATMENT OF WELDING SEAM 焊缝热处理 | () | M | CONTRACT NO. 合同号 | A116014 |

| STEEL GRADE 钢级 | HEAT NO. 炉号 | SPECIFICATION 规格 (mm) | WEIGHT WT (吨) | PCS (支) | CHEMICAL COMPOSITION管坯化学成份(%) | | | | | | | | | | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | Ti | V | Al | Nb | N | B | Sn | Ce | Ca | C _{E,mm} | C _{E,1m} | |
|----------------------|----------------|-----------------------------|------------------|------------|-------------------------------|------|------|-------|-------|----|----|----|----|----|---|----|----|---|---|----|----|----|----|----|---|----|----|---|---|----|----|----|-------------------|-------------------|---|
| | | | | | C | Si | Mn | P | S | Cu | Ni | Cr | Mo | Ti | | | | | | | | | | | | | | | | | | | | | V |
| B | 4-65135 | Φ114.3*6.02*6150 | 61.393 | 621 | 0.17 | 0.20 | 0.47 | 0.016 | 0.025 | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - | - |

| MECHANICAL PROPERTY OF PIPE BODY 管体物理性能 | | | | MECHANICAL PROPERTY OF WELDING SEAM 钢管焊缝物理性能 | | | | T.S.=TENSILE STRENGTH IMP=IMPACT VALUE (KJ/M) | | T.S.=YIELD STRENGTH E.L.=ELONGATION | | T.S.=TENSILE STRENGTH IMP=IMPACT VALUE (KJ/M) | | T.S.=TENSILE STRENGTH IMP=IMPACT VALUE (KJ/M) | | |
|--|---------------------------------------|------------------------------|-----|---|------------------|---------------------------------------|-----|--|-------------------------------------|--|------------------------------|--|--|--|--|--|
| Y.S. (R _{0.2}) 屈服强度 MPa | T.S. (R _m) 抗拉强度 MPa | E.L. (A) 伸长率 A50mm (%) | IMP | IMP | FLATTENING 压扁 | T.S. (R _m) 抗拉强度 MPa | IMP | WELDING SEAM 焊缝100% | DELAMINATION OF PIPE END 管端分层 | PIPE BODY 管体 | TEST PRESSURE 试验压力 MPa | DELAY TIME 保压时间 秒 | Y.S.-YIELD STRENGTH E.L.-ELONGATION | T.S.=TENSILE STRENGTH IMP=IMPACT VALUE (KJ/M) | T.S.=TENSILE STRENGTH IMP=IMPACT VALUE (KJ/M) | T.S.=TENSILE STRENGTH IMP=IMPACT VALUE (KJ/M) |
| 316 | 459 | 38.0 | - | - | OK | - | - | OK | - | - | 15.2 | 6s | | | | |

INSPECTOR 检验员: 张世格

CONSIGNOR 发货员: 陈培

ISSUED DATE 发证日期: 2017年1月10日

NOTES
说明:
1. Pressure pipes used with ordinary pipes will be regarded as ordinary ones.
承压管与一般管混用时，一律按一般管保证。
3. Any changes by handwriting is invalid.
本证明任何手写或改动均无效。

2. Quality defects occurred in transit is beyond our responsibility.
运输装卸中造成的产品缺陷不予保证。
4. This certificate should be proved valid with seal.
本证明未加盖产品质量证明章无效。

