

ORIGINAL

QUALITY CERTIFICATE

P/O No. : 14248
L/C No. : M928670

주식회사 휴스틸

CERTIFICATE No. : 130123-026



HUSTEEL Co., Ltd.

MANUFACTURED No. : 2012-12-212

ISSUED DATE : 2013.01.23

COMMODITY : E.R.W. STEEL PIPE

HEAD OFFICE SHINAN B/D 15F, 943-19, DAECHE-DONG, KANGAM-GU, SEOUL, KOREA

SUPPLIER : HUSTEEL CO., LTD.

SPECIFICATION : API 5L-B/ASTM A53B

DAEBUL PLANT 3RO, DAEBUL INDUSTRIAL COMPLEX, SAMHO-EUP, YEONGAM-GUN, JEOLLANAM-DO, KOREA

CUSTOMER : PLESA ANAHUAC Y CLAS.,S.A. DE C.V.

Main table with columns: NO., HEAT\_NO, QUANTITY, TYPE, NOMINAL SIZE, ORDER SIZE (O.D, W.T, LENGTH), WEIGHT, TENSILE TEST (TS, YS, EL, YR, WTS), CHEMICAL COMPOSITION (%), and various test results.

Table with columns: NO., HYDROSTATIC TEST, HEAT TREATMENT, ZINC COATING TEST, THREADS, HARDNESS TEST, IMPACT TEST, N-D-T, FLATTENING OR BEND TEST, VISUAL & DIMENSION, METALLOGRAPHIC TEST, RESIDUAL MAGNETISM.

\*1. Type of Pipe Ends
\*2. O.D : Outsidi Diameter, W.T : Wall Thickness
\*3. Direction- L : Longitudinal, T : Transverse
\*4. Tensile Test -TS : Tensile Strength, YS : Yield Strength, YR : Yield Ratio, EL : Elongation, WTS : Weld tensile strength, Gauge Length : 2 inch, Y.P method : 0.5% Underload
\*5. H : Heat analysis, P : Product analysis
\*6. -2 : x1/100, -3 : x1/1000, -4 : x1/10000, -5 : x1/10000, Tr : Trace
\*7. B : Base Metal, W : Weld Line, H : Heat Affected Zone
\*8. Specimen Size -A:10x10mm, B :10x7.5mm, C:10x6.6mm, D:10x5.0mm, Direction: Transverse
\*9. T.P : Testing Pressure, H.T : Holding Time
\*10. Heat Treatment Seam Normalising
\*11. W.ZC : Weight of Zinc Coating, CST : Copper Sulphate Test
\*12. TPI : Threads per inch, ETL : Effective length of threads
\*13. NDT : UT, Reference Standard 3.2 0 Drilled Hole

SURVEYOR: WE HERBY CERTIFY THAT THE MATERIAL HEREIN HAS BEEN MADE AND TESTED IN ACCORDANCE WITH THE ORDER AND ABOVE SPECIFICATION THIS CERTIFICATE IS ISSUED ACCORDING TO EN 10204 3.1(ISO 10474 3.1 B) MANAGER OF Q.A TEAM

