



MANUFACTURER : NEXTEEL CO., LTD

CERTIFICATE No. 240516-05-05
CONTACT(P/O) NO. 3964/370911-12
ISSUED DATE. 2024-05-16
COMMODITY. H.F.W. STEEL PIPE
SPECIFICATION. API 5L B / X42 PSL1 (46th)
ASTM A53 B (2022) / ASME SA53 B (2021)

MILL TEST REPORT

EN10204 TYPE 3.1:2004

LOCATION OF FACILITIES USED FOR PIPE MANUFACTURING
:195, SONGDEOK-RO 212 BEON-GIL, DAESONG-MYEON, NAM-GU, POHANG-SI, GYEONGSANGBUK-DO, KOREA
:51, SEOMAN-RO, NAM-GU, POHANG-SI, GYEONGSANGBUK-DO, KOREA

COIL ROLLING AND STEELMAKING.
:POSCO POHANG WORKS, 6262, DONGHAEAN-RO, NAM-GU, POHANG-SI, GYEONGSANGBUK-DO, 37877, KOREA
:POSCO GWANGYANG WORKS, 20-26, POKPOSARANG-GIL, GWANGYANG-SI, JEOLLANAM-DO, 57807, KOREA

* THE PIPE AND COATINGS ARE FREE OF BOTH MERCURY AND LEAD * THE PIPE HAS BEEN TESTED PER RELEVANT SPECIFICATIONS AND MEET THE REQUIREMENTS * NACE MR0103 / MR0175 / ISO15156 (Chemical Composition, Heat Treatment & Hardness Only)

Table with columns for TENSILE TEST, CHEMICAL COMPOSITION(%), HYDRO-STATIC TEST, IMPACT TEST, HARDNESS TEST, Corrosion TEST, and RE MARK. Includes chemical composition data for C, Si, Mn, P, S, Cr, Ni, Cu, Mo, V, Nb, Ti, B, N, and mechanical test results.

Summary table for SUB TOTAL, HEAT TREATMENT, VISUAL & DIMENSION, FLATTENING TEST, GUIDED BEND TEST, REVERSE FLATTENING TEST, WELD DUCTILITY TEST, METALLOGRAPHIC TEST, FLARING TEST, RESIDUAL MAGNETISM TEST, CRUSH TEST, STRAIGHTNESS, and NONDESTRUCTIVE TEST.

NOTES:
1. BPE: BLACK PLAIN END, BBE: BPE BEVELLED END, BTE: BLACK THREADED END, BTC: BLACK THREADED & COUPLED, GPE: GALVANIZED PLAIN END.
2. O.D.: OUTSIDE DIAMETER (Unit : Inch) Thick: WALL THICKNESS(Unit : Inch) Length: (Unit : Feet)
3. B: BASE METAL, W: WELD SEAM
4. H: HEAT(LADLE) ANALYSIS, P: PRODUCT ANALYSIS
5. Chemical Composition Unit: -4: x1/10000, -3: x1/1000, -2: x1/100
6. Carbon Equivalent: 1.C<=0.12%, CE(Pcm)=C+Si/30+Mn/20+Cu/20+Ni/60+Cr/20+Mo/15+V/10+5B 2.C>0.12%, CE(I)W= C+Mn/6+(Ni+Cu)/15+(Cr+Mo+V)/5
7. TP: TEST PRESSURE 8. G: Good
9. Orientation : T = Transverse , L = Longitudinal
10. CVN IMPACT TEST SPECIMEN SIZE : a:FULL SIZE, b:10x7.5, c:10x6.7,d:10x5.0, e:10x3.3, f:10x2.5
11. B= Body, W = Weld, H = Heat Affected Zone, SA = Shear Fracture Area of Body(%)
12. O: Outside of Wall, C: Center of Wall, I: Inside of Wall
13. U.T.:ULTRASONIC TEST , E.T:EDDYCURRENT TEST, M.T:MAGNETIC PARTICLE TEST
14. Q: Quenched and Tempered, N & T : Normlized and Tempered, W: Weld Seam Normalized

* Tensile Test(Strip Type Specimen:Width) : 0.0 <= 3-1/2" -> 19mm, 4" < 0.0 <= 7-5/8" -> 25mm, 8-5/8" <= 0.0 -> 38mm
* Tensile Test(Location & orientation for Specimen) 1) 0.0 < 8-5/8" : L90 (Pipe Body) 2) 8-5/8" <= 0.0 : T180(Pipe Body), T (Weld Seam)
* Reference Indicator for NDE : N10 3.2mm(0.125")
* Min. temperature for Heat Treatment : 900 °C
* This material has been fully killed and made by basic oxygen process.
* This material is fine grained steel.
* Country of Melt and Pour : Korea.

SIGNATURE and MANAGER OF QUALITY ASSURANCE TEAM section with handwritten signature 'C. K. An'.