

HEAVY METAL & TUBES LTD.

TEST CERTIFICATE

Unit III : CS/AS HFS Plant Works : 193-211, Village Mandali, Kalol - Mehsana Highway, Dist-Mehsana, Gujarat, India.
 Tele. : (02762)260141/42/43 Fax No : 260140 Email : hfdiv@heavytubes.com, Web : www.heavytubes.com / www.hmtl.com

EN 10204-3.1

FORMAT NO: F-C-07-25 Rev.01

TEST CERTIFICATE

| | | | |
|------------------|---|-----------|------------------|
| Customer. : | M/s M.T.A. DEVELOPMENTS LTD | T.C.No. : | HMTL/HF/1536A/15 |
| P.O.No. : | 201046-00 Dt: 02.06.2015 | Date. : | 05.08.2015 |
| Product. : | Hot Finished Carbon Steel Seamless Pipes (Fully Killed) | W.O.No. : | CS-087 |
| Specification. : | ASTM A-106-13/ASME SA-106, SEC.II PART-A EDITION-2013, GR.B/C NACE MR0175 & MR0103 | Insp.By : | HMTL |


| Item No. | Heat No | Part No. | Dimensions | Bundle No | No.Of. Pipes | Total Feet |
|----------|---------|-------------------|--|-----------|--------------|------------|
| 2 | W4D2320 | GS11/221SMLS40BPE | NPS 1 1/2" X SCH-40 X 21Feet Long (PE) | 31 TO 60 | 1110 | 23310.00 |

Chemical Analysis(%)

| Item No. | Heat No. | *S | C | Mn | P | S | Si | Cr | Mo | Ni | Cu | V | CE |
|----------|----------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|------|
| | | Min | ---- | 0.29 | ---- | ---- | 0.10 | ---- | ---- | ---- | ---- | ---- | ---- |
| | | Max | 0.30 | 1.06 | 0.035 | 0.035 | ---- | 0.40 | 0.15 | 0.40 | 0.40 | 0.08 | ---- |
| 2 | W4D2320 | H | 0.20 | 0.89 | 0.017 | 0.009 | 0.240 | 0.02 | 0.001 | 0.01 | 0.02 | 0.001 | ---- |
| | | P | 0.191 | 0.902 | 0.016 | 0.010 | 0.241 | 0.023 | 0.001 | 0.008 | 0.020 | 0.000 | ---- |
| | | P | 0.195 | 0.901 | 0.016 | 0.010 | 0.238 | 0.018 | 0.001 | 0.009 | 0.018 | 0.000 | ---- |
| | | P | 0.192 | 0.899 | 0.016 | 0.009 | 0.237 | 0.020 | 0.000 | 0.010 | 0.022 | 0.000 | ---- |
| | | P | 0.194 | 0.896 | 0.017 | 0.009 | 0.240 | 0.021 | 0.001 | 0.012 | 0.019 | 0.000 | ---- |
| | | P | 0.193 | 0.895 | 0.016 | 0.009 | 0.241 | 0.022 | 0.001 | 0.011 | 0.019 | 0.000 | ---- |
| | | P | 0.194 | 0.896 | 0.015 | 0.008 | 0.242 | 0.021 | 0.000 | 0.012 | 0.020 | 0.000 | ---- |

Mechanical Properties.

| Item No. | Heat No. | Flattening Test | Bend Test 12XDia=579.6 at 90° | Hardness (MAX 22 HRC) | Yield Strength Psi (40000Min) | Tensile Strength Psi (70000Min) | % Elongation GL. 50. mm (30% Min) Full Section |
|----------|----------|-----------------|-------------------------------------|--------------------------|-------------------------------------|---------------------------------------|---|
| 2 | W4D2320 | N.A | ACCEPTABLE | 14 TO 17 | 54759 54023 | 84956 84720 | 42% 44% |

Marking :  HEAVY METAL ASTM A 106 GR. B/C, ASME SA 106 GR.B/C NPS 1.1/2" X SCH 40 X 21FEET H.NO.W4D2320
 HYDRO TEST AT 2500 PSI(G) HOLDING TIME 10 SECOND MIN (MADE IN INDIA)

Hydro Test : 2500Psi(g). [Holding Time 10 Second min]

Remarks

- 1) 100% Visual & Dimensional Inspection Checked By HMTL - Found Satisfactory.
- 2) Mechanical Tests Conducted By HMTL - Found Satisfactory.
- 3) 100% Hydro Test Conducted By HMTL - Found Satisfactory.
- 4) Pipe is Mercury Free.

* H = Heat Analysis, P = Product Analysis, S = Specification

Surveyor's Sign

P.O.Status : Complete

For, HEAVY METAL & TUBES LIMITED



WE HEREBY CERTIFY THAT THE MATERIAL HERE IN DESCRIBED HAS BEEN TESTED IN ACCORDANCE WITH ABOVE SIZE & SPECIFICATION

