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# WELDBEND

## MATERIAL TEST REPORT
## FITTINGS

To: PLESANAHUAC Y CIAS S A DE C V

LAREDO,
Attn: HUMBERTO

| Description | Heat I | Steel Producer | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Qty C Mn P S Si Cu Ni Cr Mo Cb V Ten Yield Elong BHN Carbon Equivalence Notes: | | | | | | | | | | | | | | |
| 20" Std LR 90° Elbow | 23333 | VALLOUREC/MANNESMANN | | | | | | | | | | Hot Formed | | |
| 109 .623 .008 .003 .207 .089 .074 .078 .026 .001 .001 61931 45687 41.20 156 | | | | | | | | | | | | | | |
| 0.245 | | | | | | | | | | | | | | |
| 20" Std LR 90° Elbow | 24618 | VALLOUREC/MANNESMANN | | | | | | | | | | Hot Formed | | |
| .103 .615 .014 .004 .272 .113 .073 .090 .027 .000 .002 62511 46557 39.20 149 | | | | | | | | | | | | | | |
| 0.262 | | | | | | | | | | | | | | |
| 20" Std LR 90° Elbow | 23927 | VALLOUREC/MANNESMANN | | | | | | | | | | Hot Formed | | |
| .120 .601 .010 .003 .219 .080 .066 .066 .030 .000 .003 65266 51053 41.20 149 | | | | | | | | | | | | | | |
| 0.250 | | | | | | | | | | | | | | |
| 20" Std LR 90° Elbow | 24064 | VALLOUREC/MANNESMANN | | | | | | | | | | Hot Formed | | |
| .110 .618 .011 .007 .202 .086 .085 .139 .034 .000 .001 69183 52649 39.20 149 | | | | | | | | | | | | | | |
| 0.259 | | | | | | | | | | | | | | |

All fittings meet the requirements of ASTM A-234 WPB, (and SA-234) and are seamless except as noted.
Starting Material Seamless Pipe for elbows, tees and reducers; Plate for caps and welded fittings.
ISO 9001:2000 CERTIFIED MANUFACTURER
All fittings meet NACE MRO-175 - Latest Revision

GLOBAL REGISTRARS INC

ANSI-RAB QMS ACCREDITED

August 20 2004

By Report sent digitally. Signature available on req

Quality Assurance Department
Test Results herein are correct as contained in test records retained by the company.
In accordance with EN 10 204 Para 3.1.B