



METALS INTERNATIONAL LIMITED

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INSPECTION REPORT

Report No.: MIL20110324

Issued on: Apr 20th, 2011

Inspection Time: Apr 13th&14th, 2011

P.O. No.20110324

Inspection Subject: Seamless Stainless Steel Pipes

Specification: ASTM A312 TP347H

Inspector: Lin Gaojie

Visit Summary:

Scope of Inspection

- Visual, packaging and marking inspection.
- Sample verification for testing by the customer.
- Dimension inspection.
- Physical and Chemical analysis verification.
- Part photo service.

Results of inspection to MIL 20110324

● Process Verification

1. Visual, packaging and marking inspection

The pipes were beveled and packaged by the polypropylene knitted bag. The marking was according to the customer's requirement.

Photo attachment as below



Beveled ends



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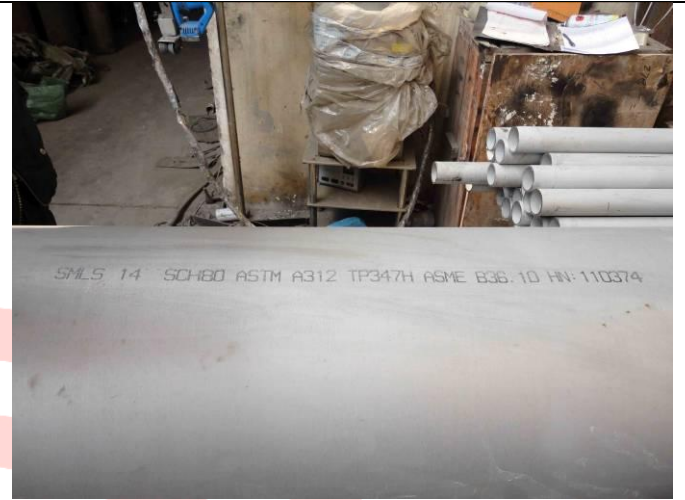
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Packaging



Marking

2. Sample verification for testing by the customer

Two samples had been cut off on the witness of the customer on Apr 13th, 2011.
Photo attachment as below



Samples cutting



Samples

3. Dimension inspection

We had measured the dimensions and the root face of one pipe was qualified
The detailed data is in the following table.

Size	Inspection Amount / pc	OD / mm	WT / mm	Length / mm	Bevel angle (deg)	Root face (mm)
355.6*19.05mm	49	355	19.8~20.6	6290	33	1~1.8
355.6*19.05mm	32	355	19.1~20.9	6605	33.5	1~2.4

Photo attachment as below



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Measuring OD



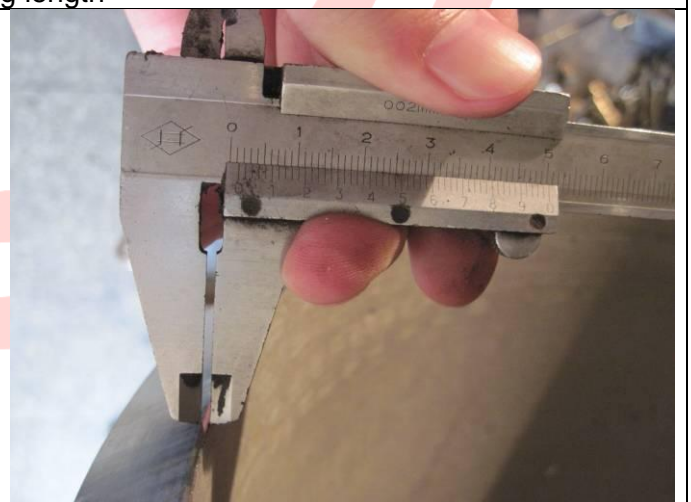
Measuring WT



Measuring length



Measuring bevel angle



Measuring root face



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4. Physical and Chemical analysis verification

- 1) The hardness were 76, 77,81HRB;
- 2) The grain size was No.7 which was qualified;
- 3) The chemical analysis was qualified while the grade of guide sample was TP304.

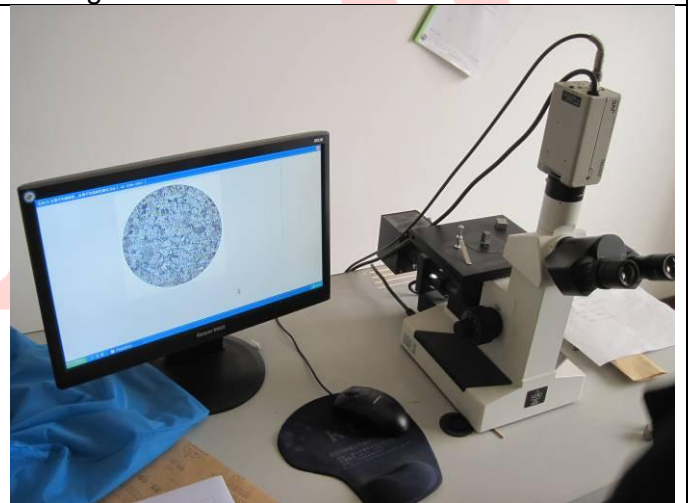
Photo attachment as below



Hardness testing



Spectral analysis



Grain size testing

- **Conclusions:**
The inspection results that the pipes are in full conformity with the specifications.