



MSi

TEST REPORT

Virina Steel LLC
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Redondo Beach, CA 90277

Attn: Mr. John Wong

Report No.: 206786-5
Date: 8-6-13
Order No.:
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SAMPLE IDENTIFICATION

| Heat No. | Condition | Sample ID |
|----------|-------------------|------------------|
| 101 | Quench & Tempered | 3cm x 25cm x 6mm |

TEST RESULTS *

GRAIN SIZE EXAMINATION

| | |
|--|------|
| Average ASTM Grain Size, Austenitic Method | 10.0 |
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* Testing performed in accordance with ASTM E3 and E112, Paragraph 3.2.1.6 after being subjected to laboratory quench and temper heat treatment; 1700°F austenitize for 1 hr, oil quench and temper 1200°F for 2 hrs., air cool. See Photographs on attached Page 2.

Approved By: Mitchell A. Jacobs, Vice President of Operations



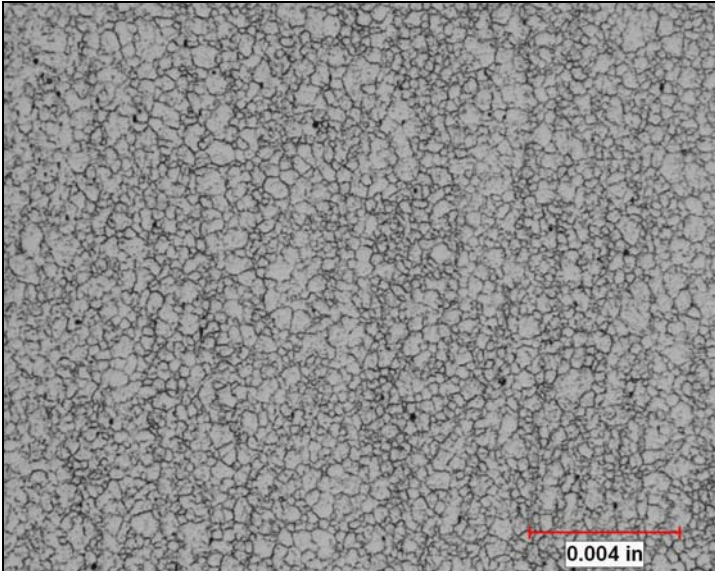


Photo 1: Mag: 200X; Etchant: Kraft's Reagent
Grains resulting from Bechet-Beaujard etch revealing a fine grain austenitic microstructure rated as ASTM 10.

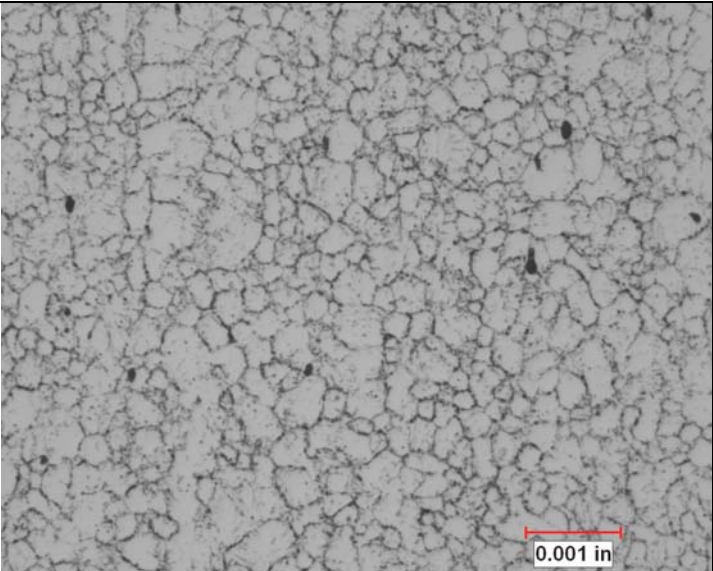


Photo 2: Mag: 500X; Etchant: Kraft's Reagent
Higher magnification view of Photo 1 displaying the fine austenitic grain size after the Bechet-Beaujard etch.