

FERMILAB, LAB NO. 21P-3590

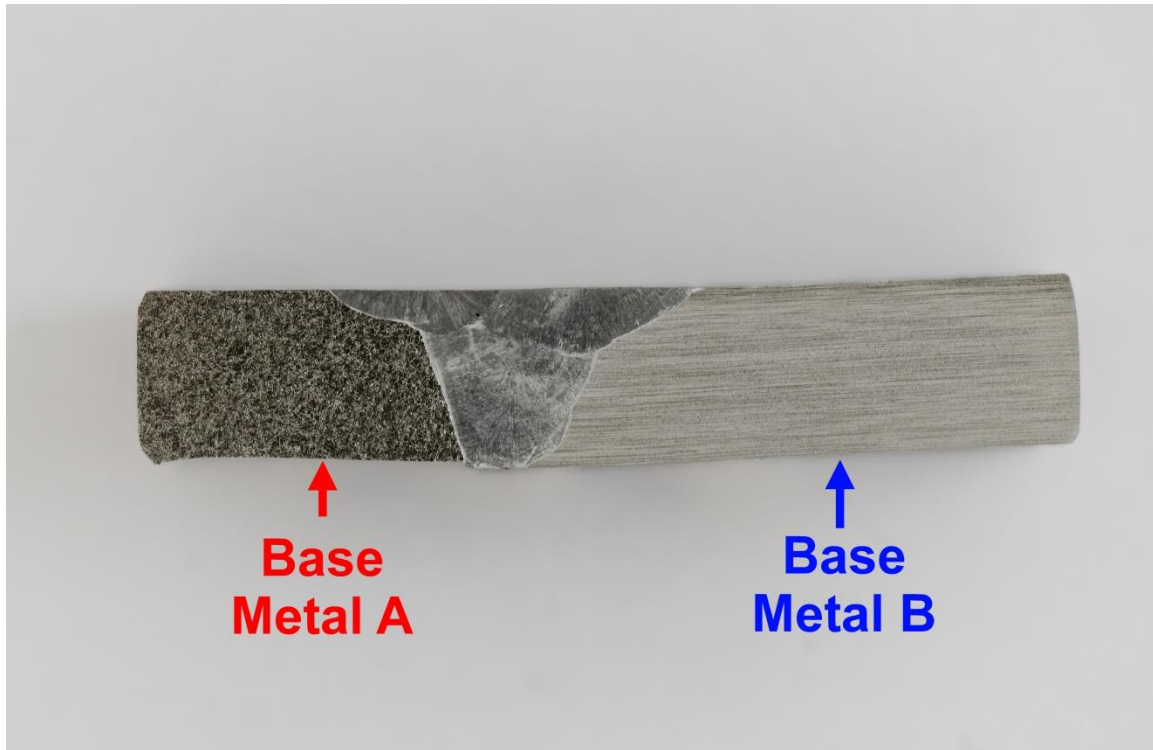


Figure 1, Macroscopic Appearance of Circ MIG, 50% Hydrochloric Acid with Hydrogen Peroxide



Figure 2, Macroscopic Appearance of Long MIG, 50% Hydrochloric Acid with Hydrogen Peroxide

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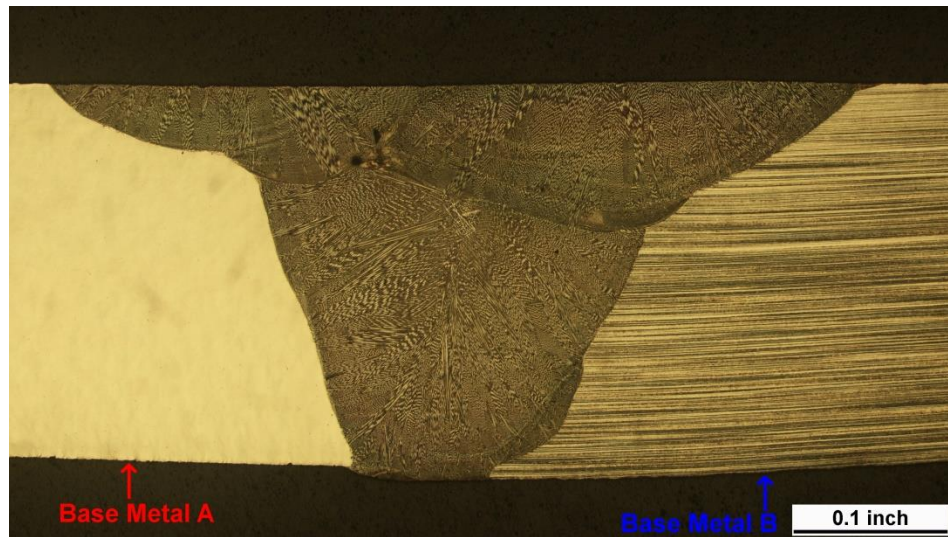


Figure 3, Etched Cross Section, Circ MIG, Etchant 219
(10X, Original Magnification)

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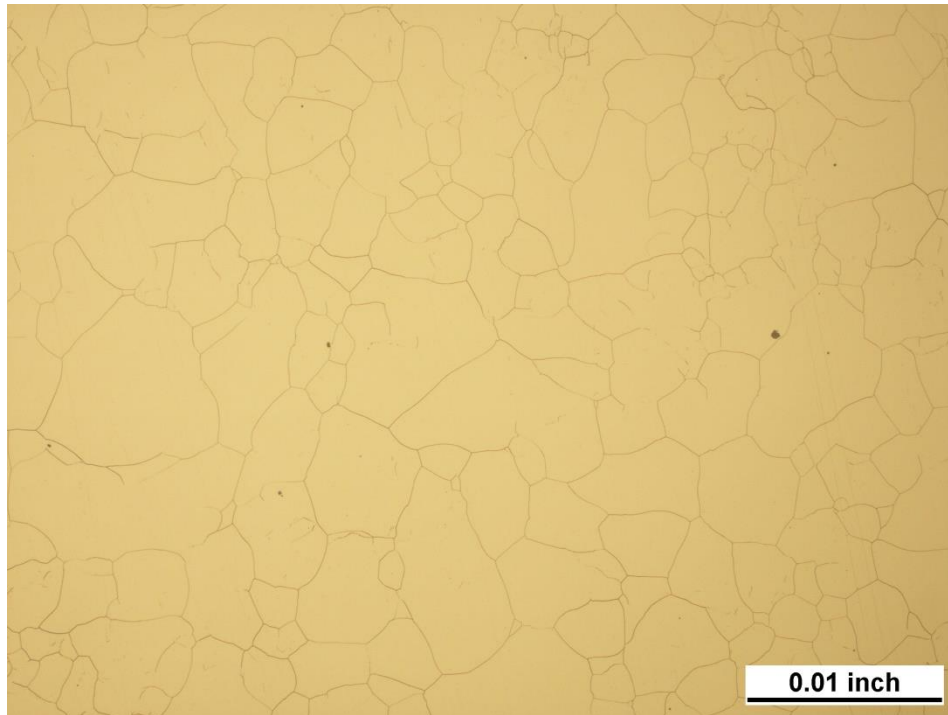


Figure 4, Etched Cross Section, Circ MIG, Base Metal A, Etchant 219 (100X)

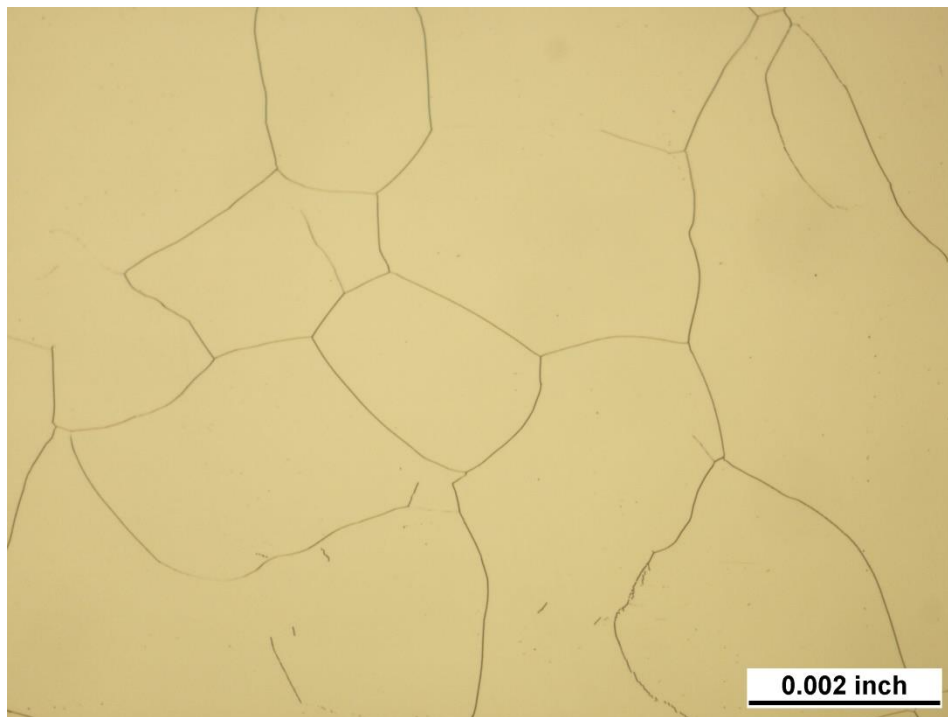


Figure 5, Etched Cross Section, Circ MIG, Base Metal A, Etchant 219 (500X)

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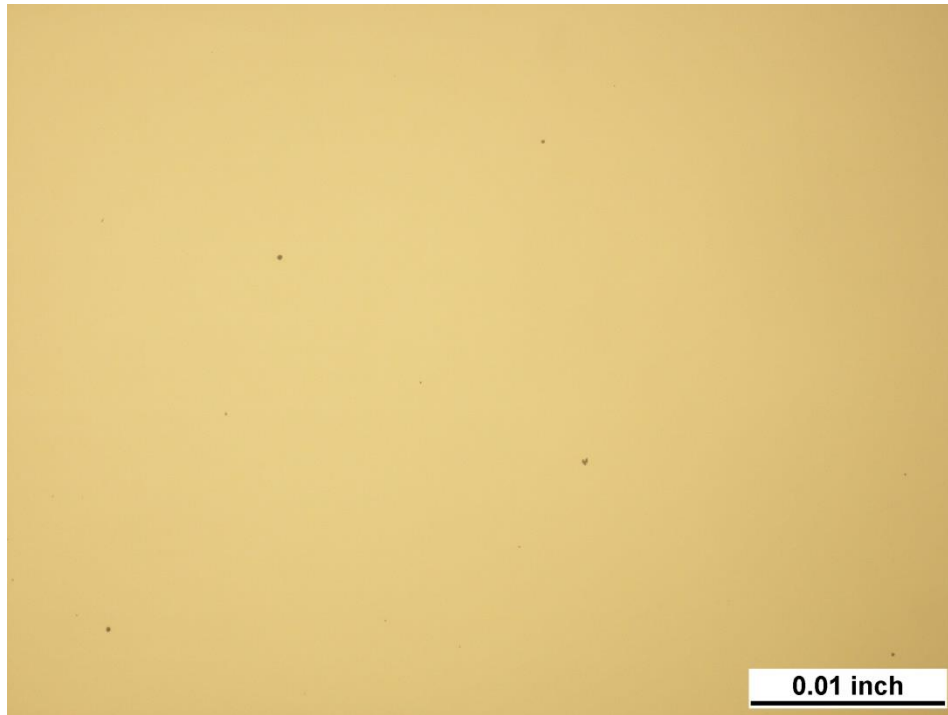


Figure 6, Etched Cross Section, Circ MIG, Base Metal A, Sodium Hydroxide Etchant (100X)

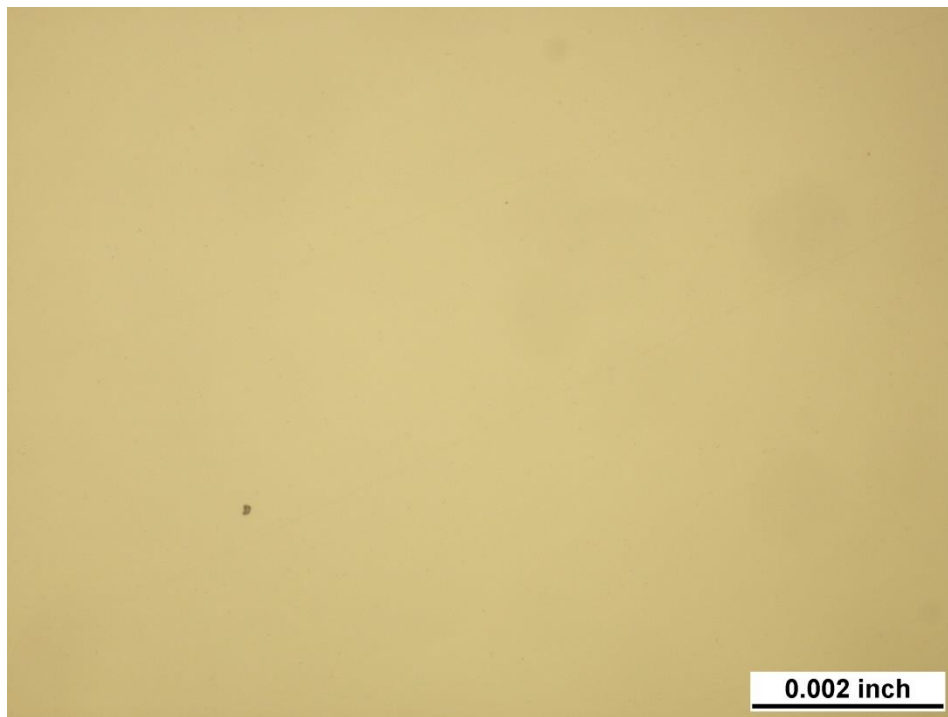


Figure 7, Etched Cross Section, Circ MIG, Base Metal A, Sodium Hydroxide Etchant (500X)

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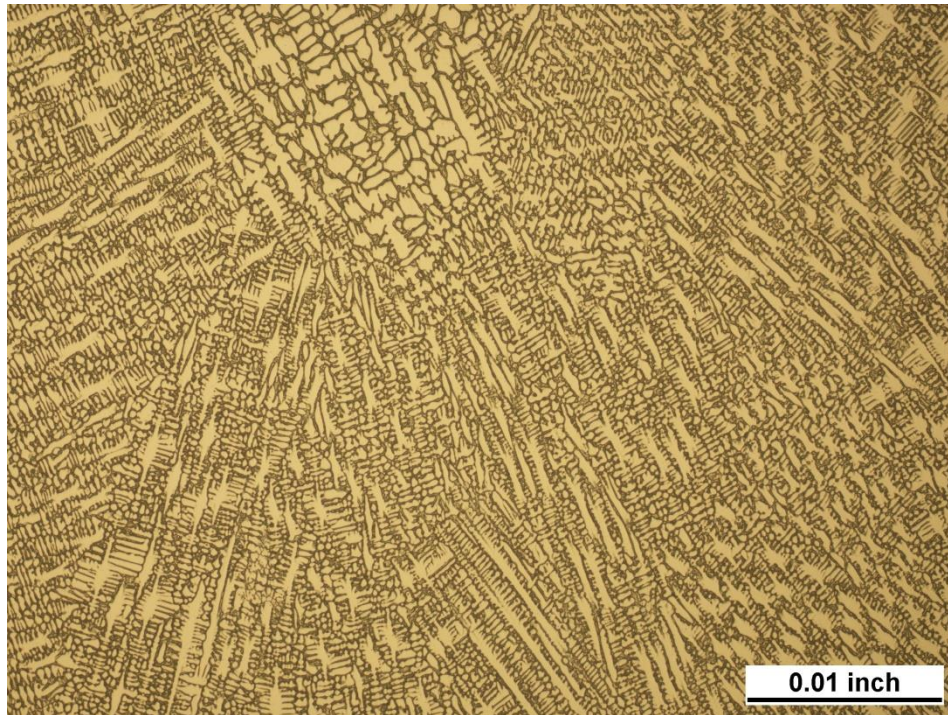


Figure 8, Etched Cross Section, Circ MIG, Weld,
Etchant 219 (100X)

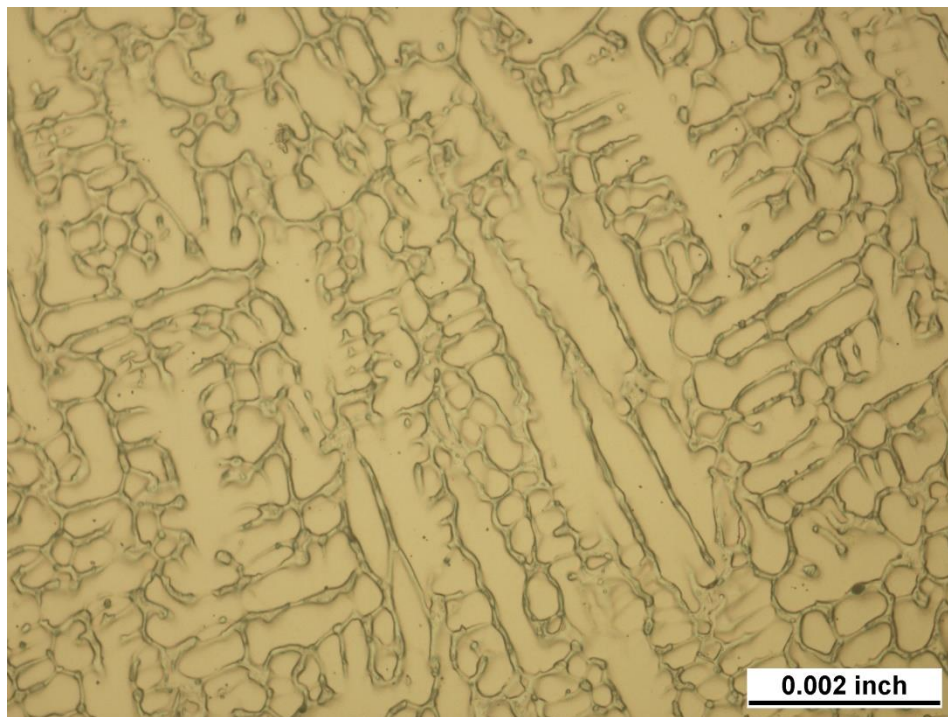


Figure 9, Etched Cross Section, Circ MIG, Weld,
Etchant 219 (500X)

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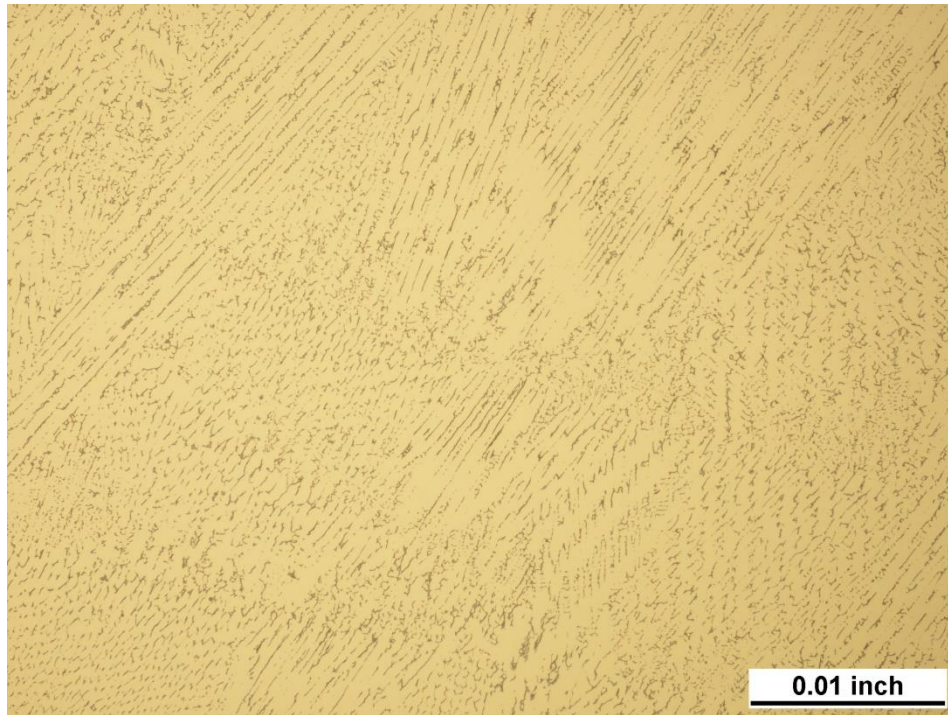


Figure 10, Etched Cross Section, Circ MIG, Weld,
Sodium Hydroxide Etchant (100X)

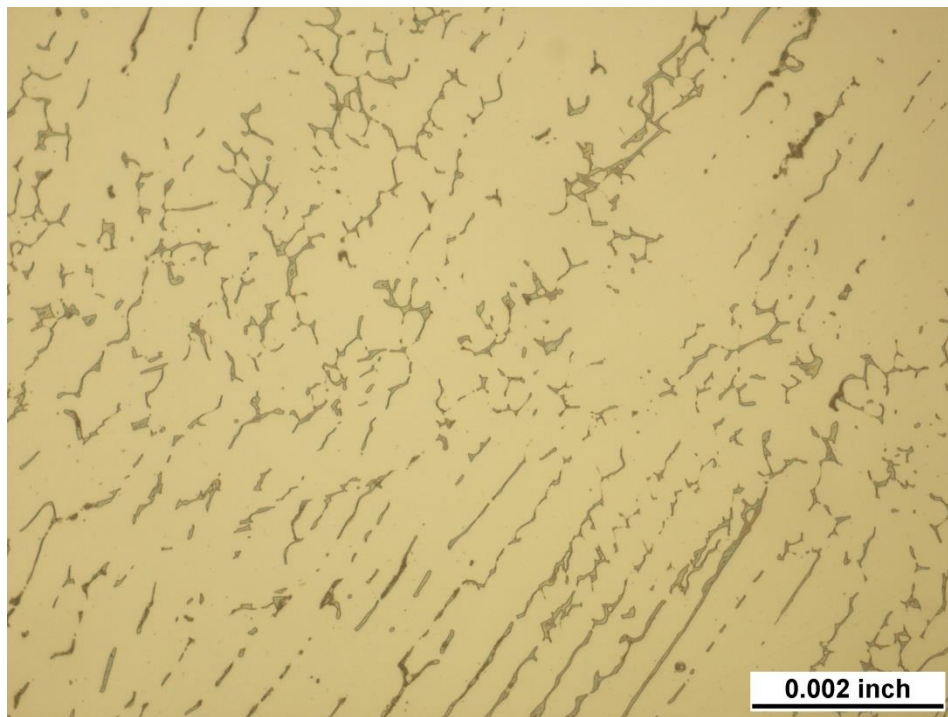


Figure 11, Etched Cross Section, Circ MIG, Weld,
Sodium Hydroxide Etchant (500X)

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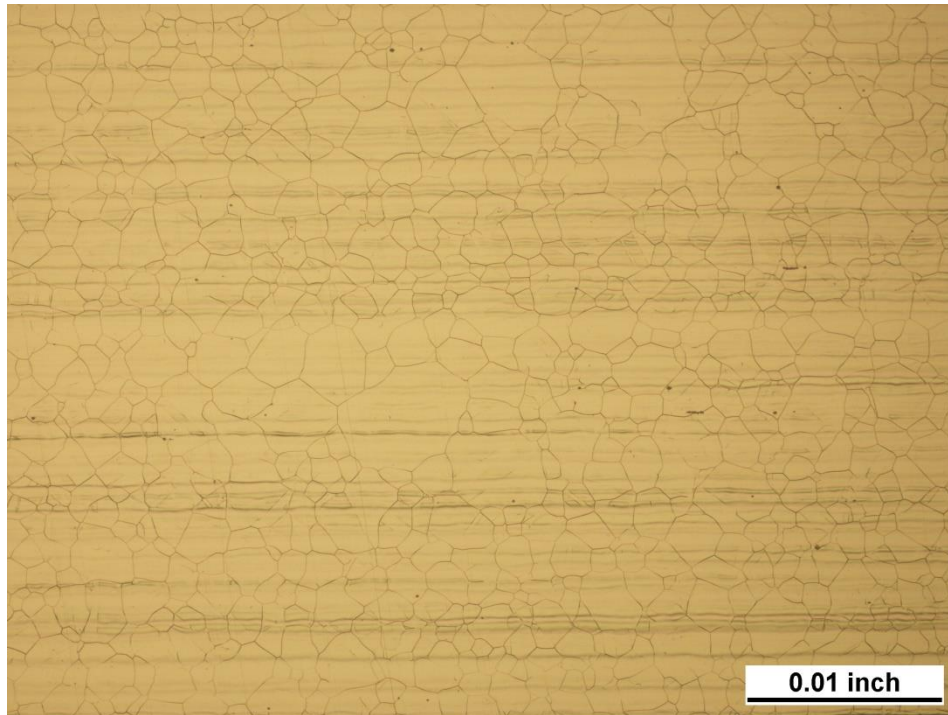


Figure 12, Etched Cross Section, Circ MIG, Base Metal B, Etchant 219 (100X)

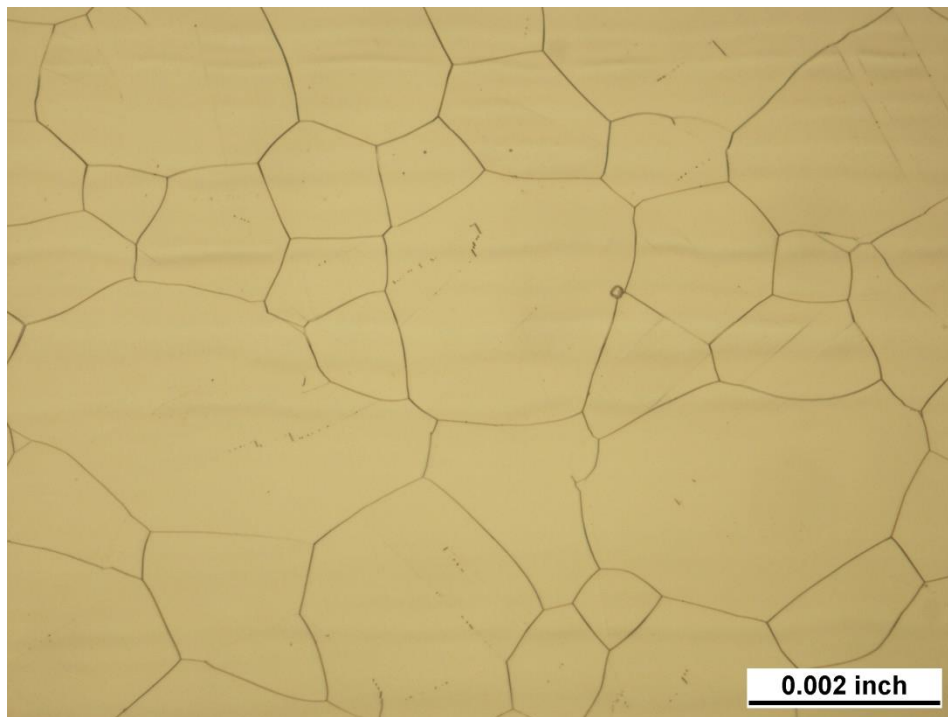


Figure 13, Etched Cross Section, Circ MIG, Base Metal B, Etchant 219 (500X)

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Figure 14, Etched Cross Section, Circ MIG, Base Metal B, Sodium Hydroxide Etchant (100X)

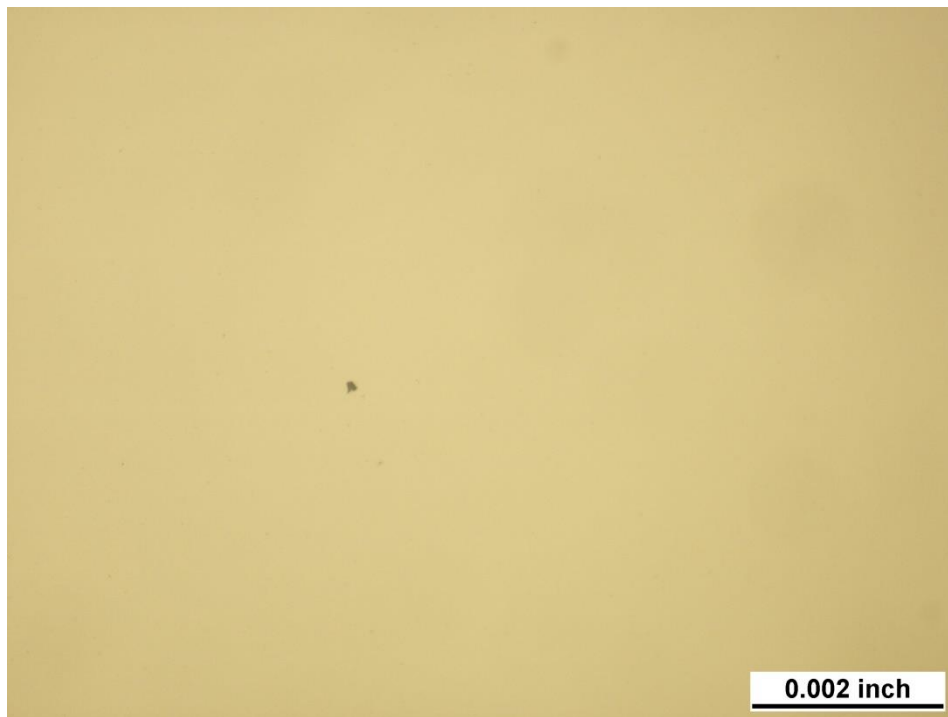


Figure 15, Etched Cross Section, Circ MIG, Base Metal B, Sodium Hydroxide Etchant (500X)

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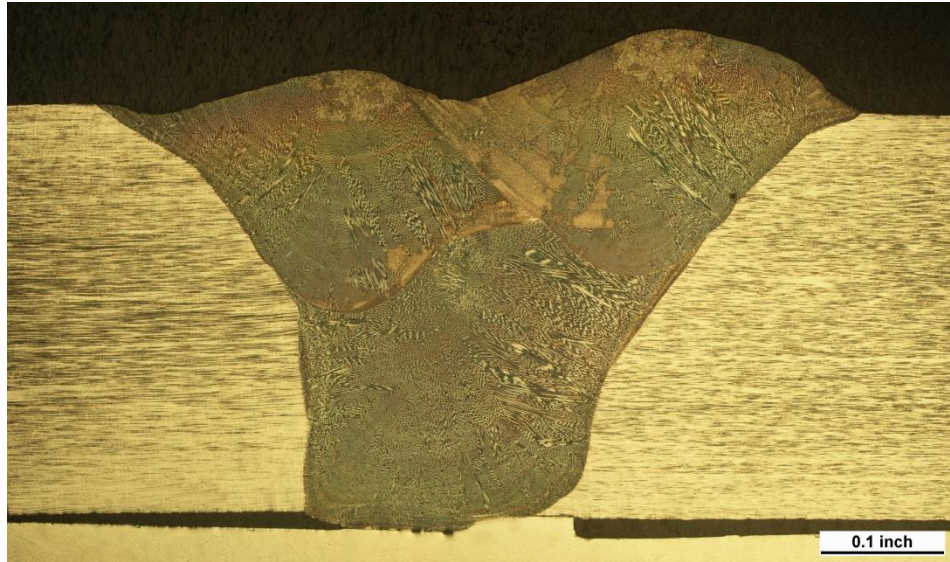


Figure 16, Etched Cross Section, Long MIG, Etchant 219
(10X, Original Magnification)

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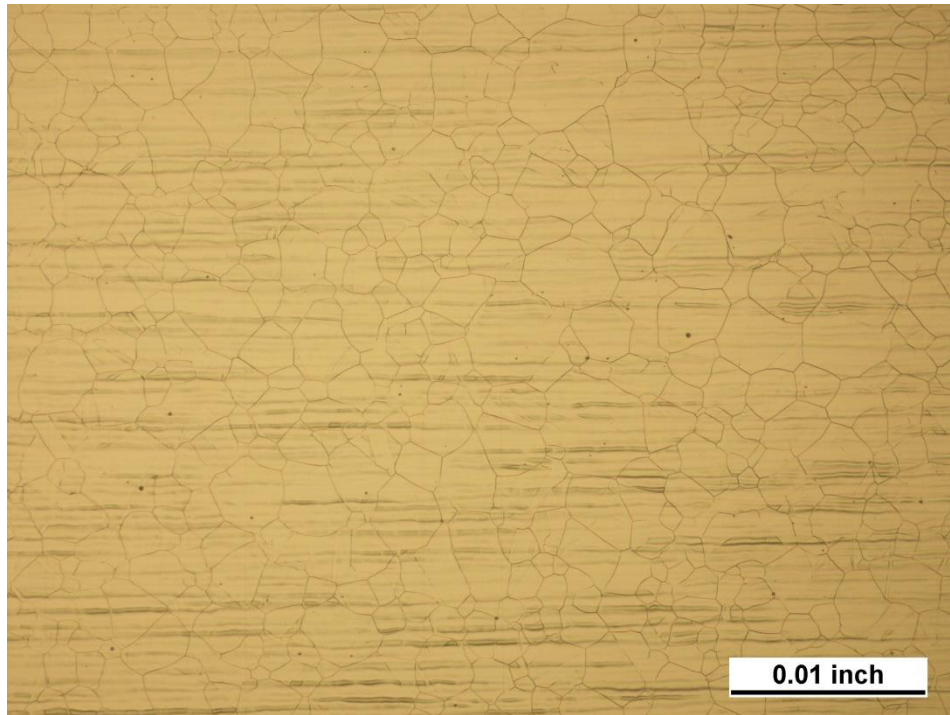


Figure 17, Etched Cross Section, Long MIG, Base Metal, Etchant 219 (100X)

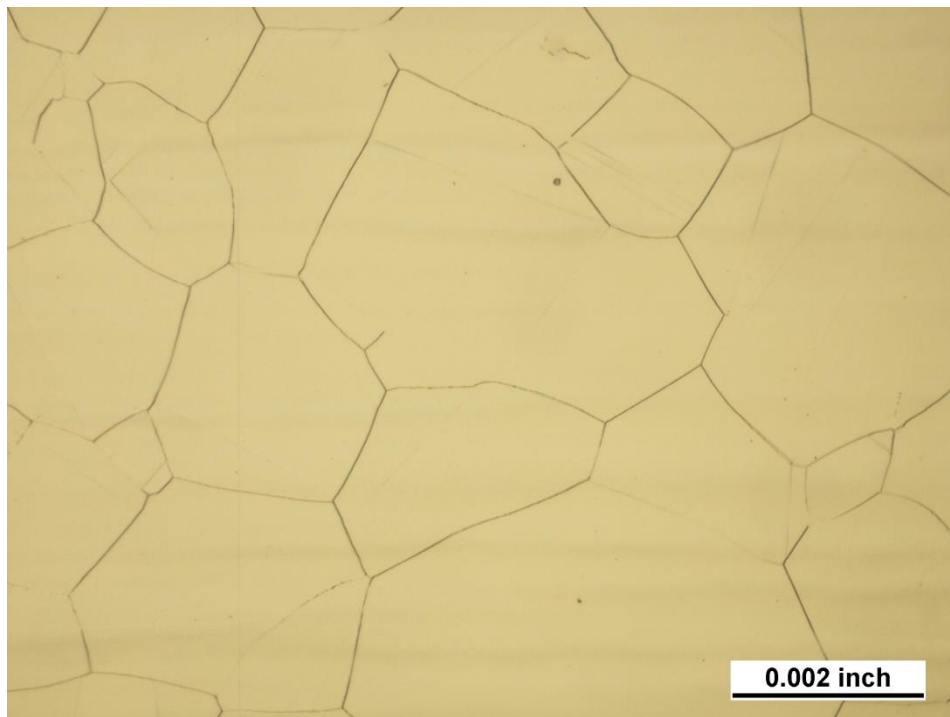


Figure 18, Etched Cross Section, Long MIG, Base Metal, Etchant 219 (500X)

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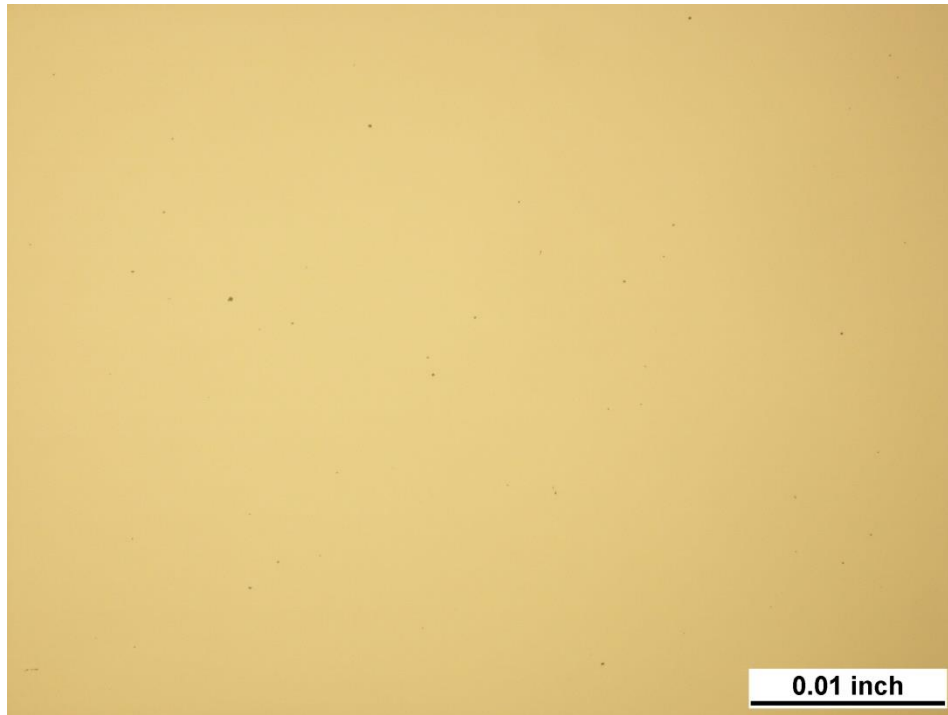


Figure 19, Etched Cross Section, Long MIG, Base Metal, Sodium Hydroxide Etchant (100X)

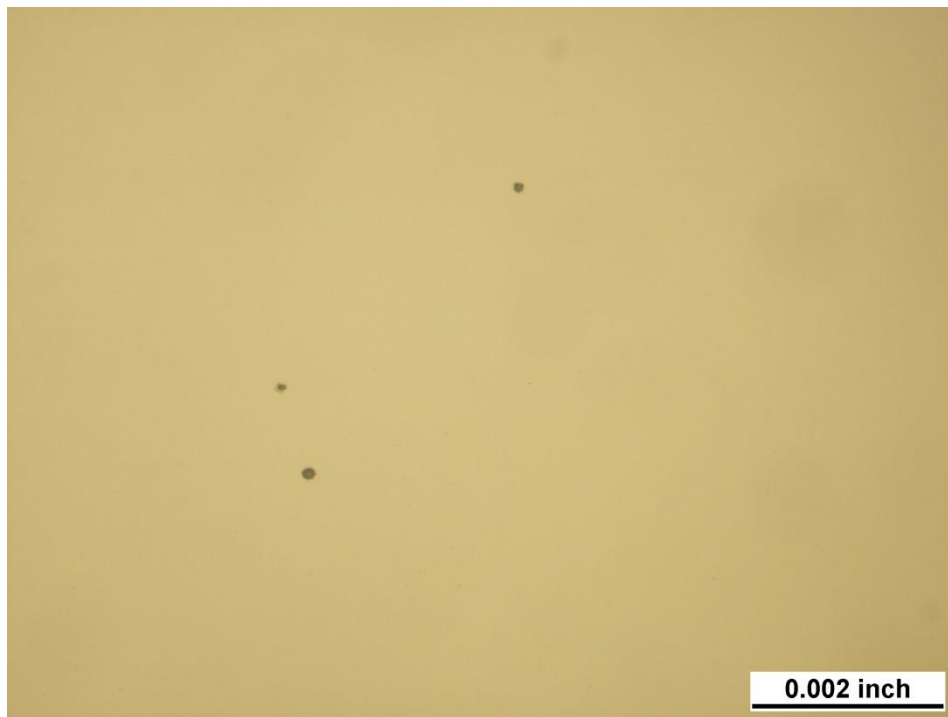


Figure 20, Etched Cross Section, Long MIG, Base Metal, Sodium Hydroxide Etchant (500X)

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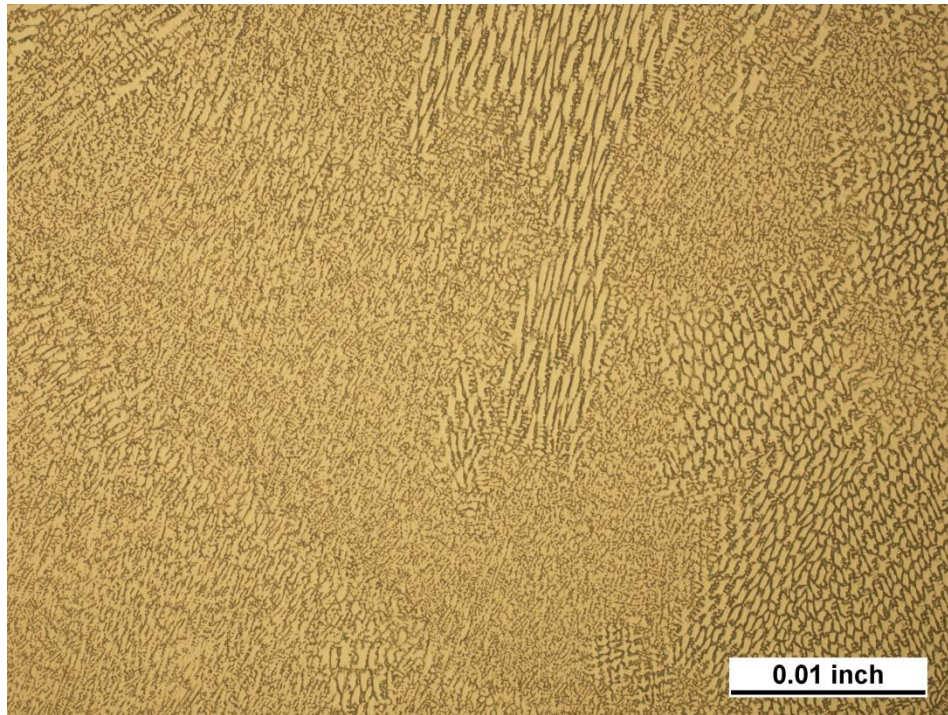


Figure 21, Etched Cross Section, Long MIG, Weld,
Etchant 219 (100X)

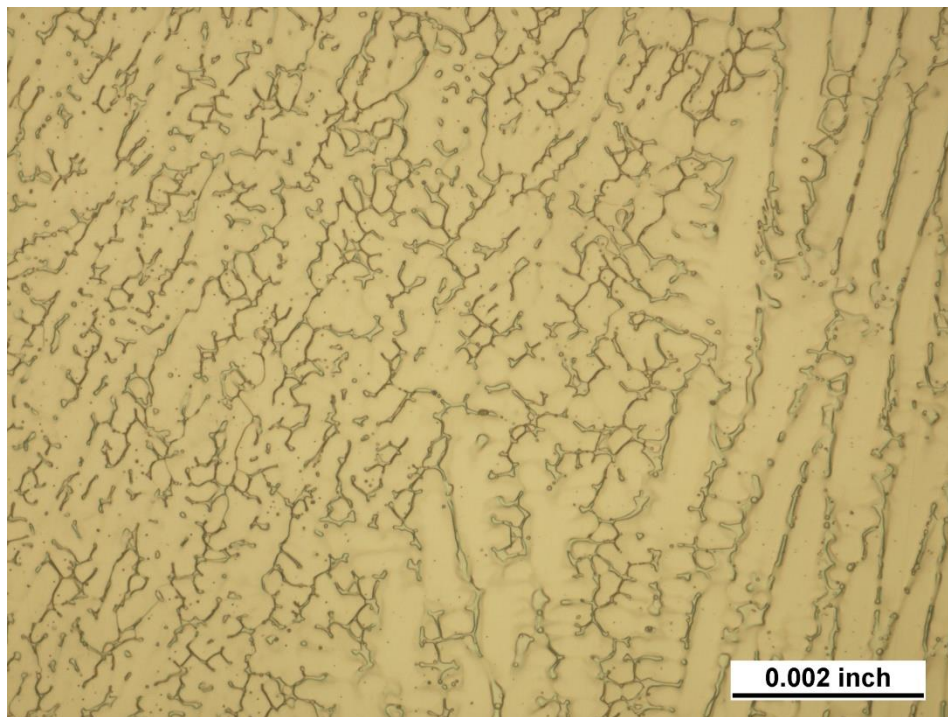


Figure 22, Etched Cross Section, Long MIG, Weld,
Etchant 219 (500X)

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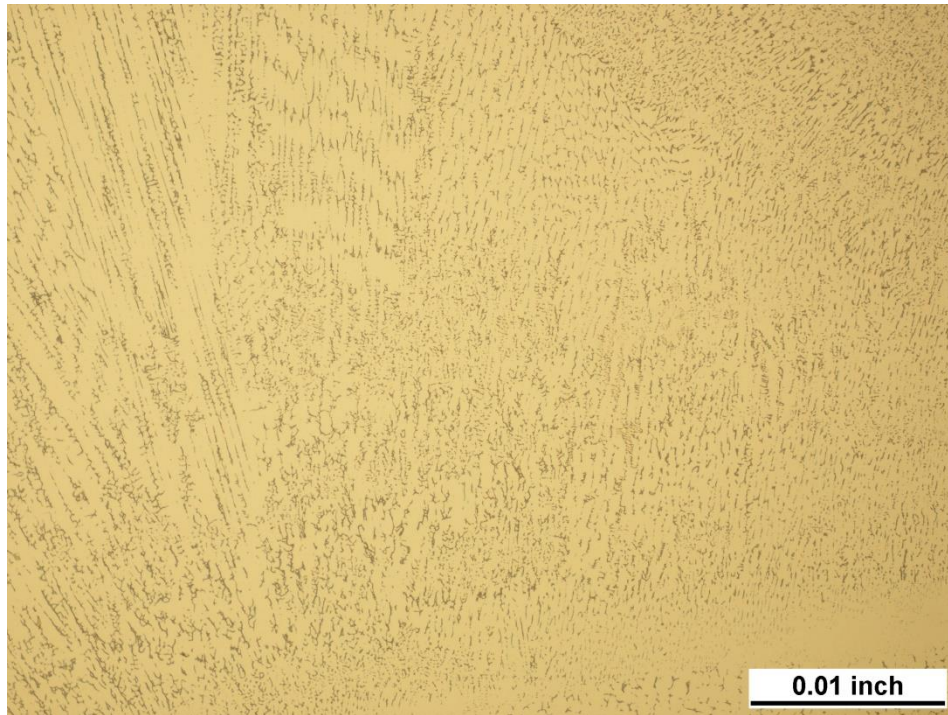


Figure 23, Etched Cross Section, Long MIG, Weld,
Sodium Hydroxide Etchant (100X)

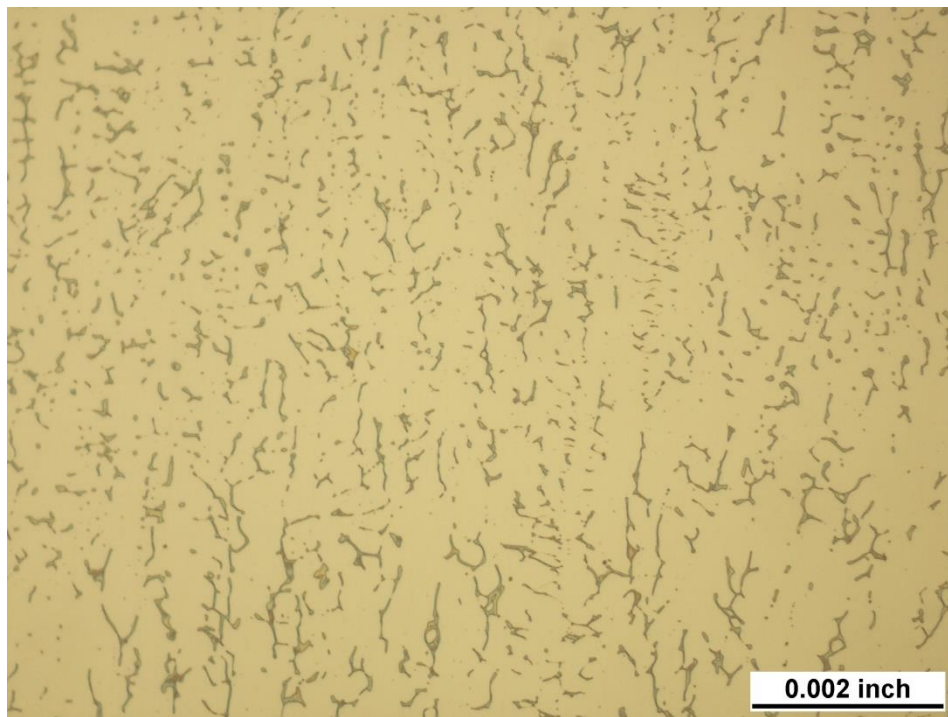


Figure 24, Etched Cross Section, Long MIG, Weld,
Sodium Hydroxide Etchant (500X)