



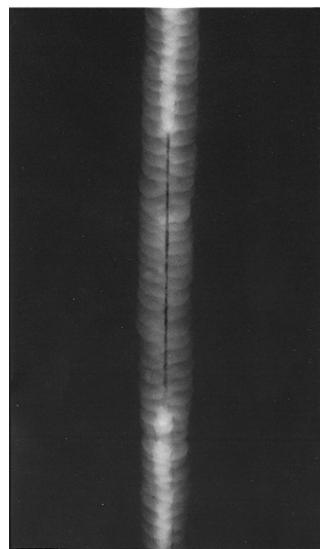
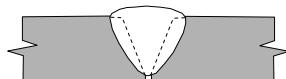
Radiographic Interpretation

Weld Radiographs

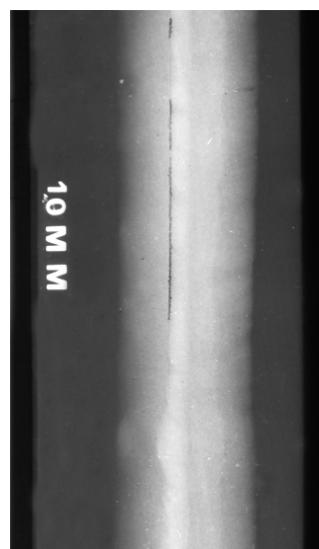
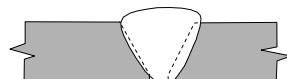
Course reference WIS 20

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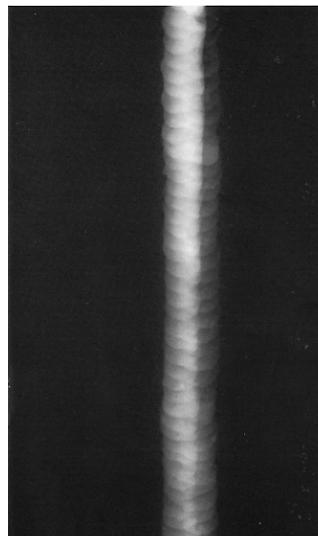
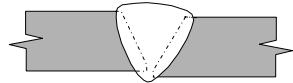
Lack of root penetration



Lack of root fusion

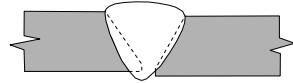
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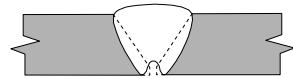
Misalignment

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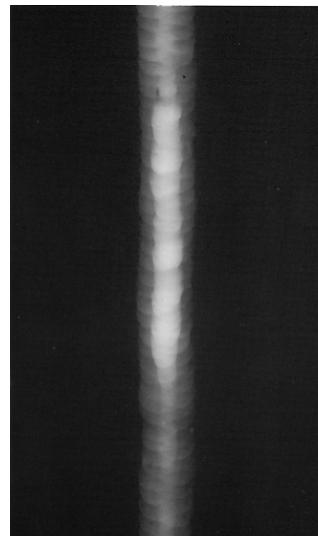
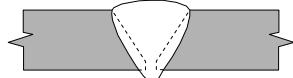
Misalignment/Lack of root fusion

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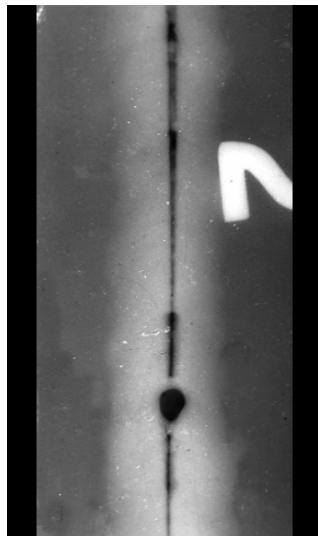
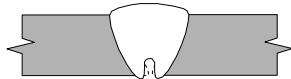
Concave root

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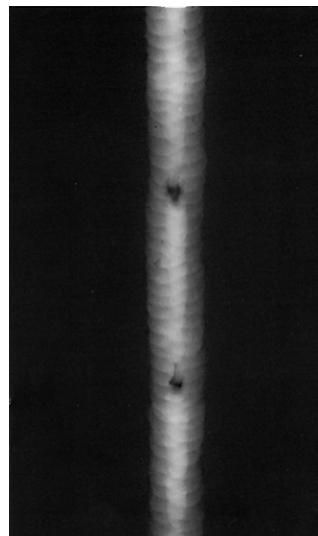
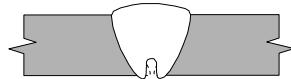
Excess root penetration

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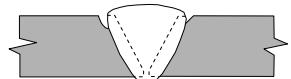
Burn through + LROP

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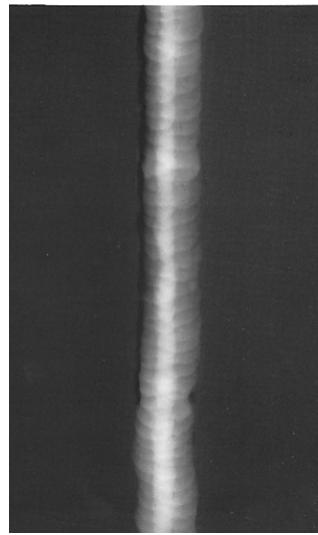
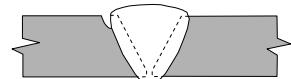
Burn through

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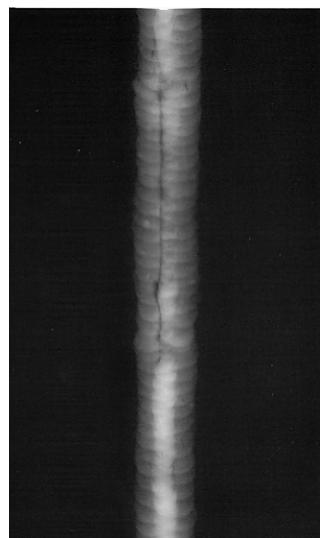
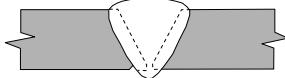
Cap undercut

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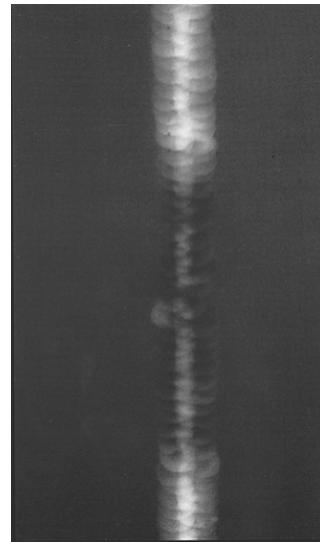
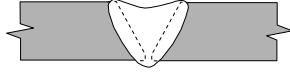


Cap undercut

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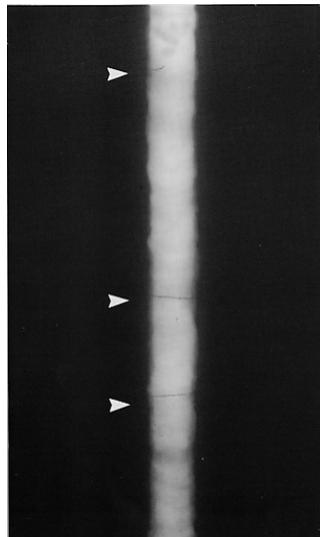
Root undercut



Incomplete filled groove

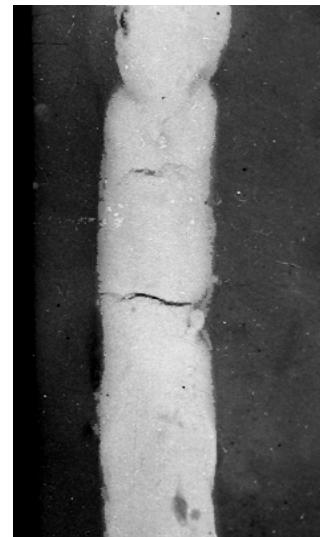
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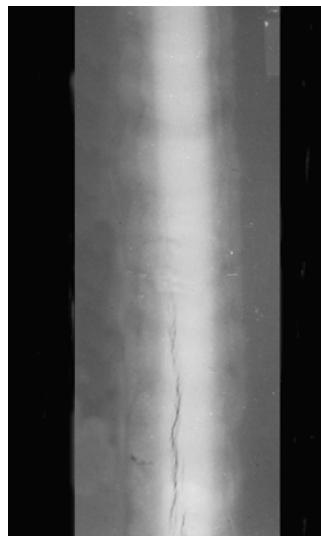
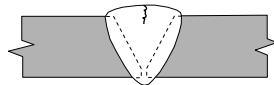
Transverse crack

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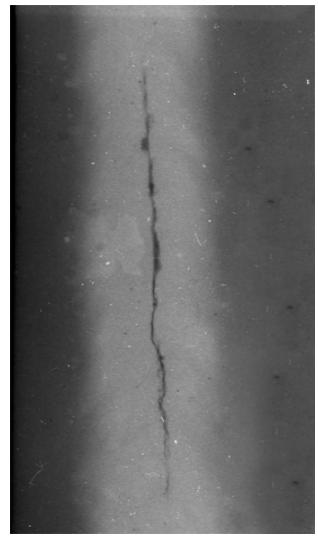
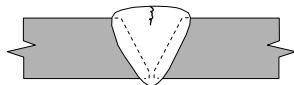


Root crack

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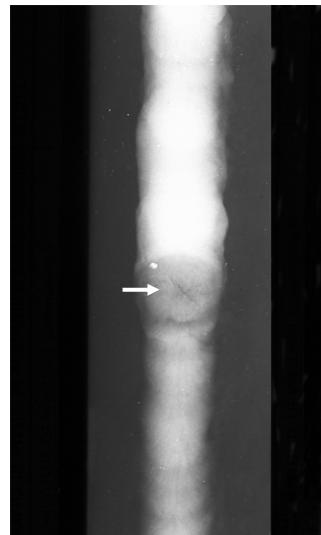
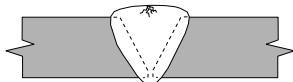
Longitudinal crack



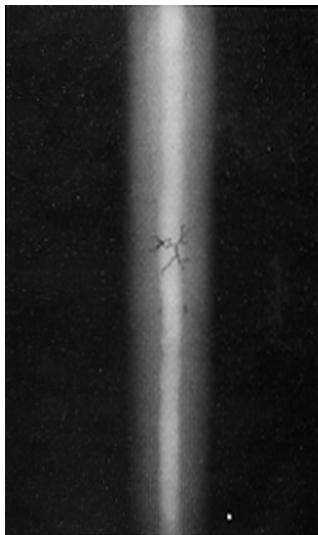
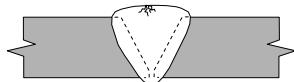
Longitudinal crack

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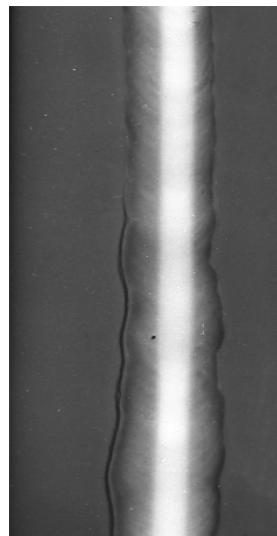
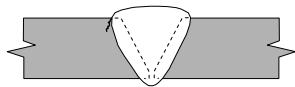
Crater crack



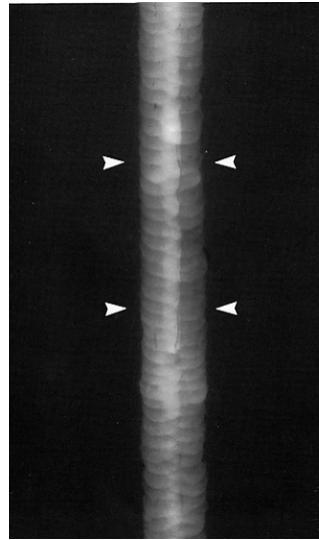
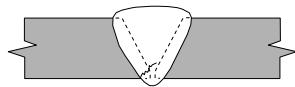
Star crack

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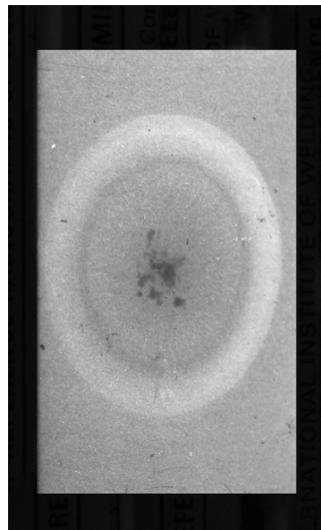
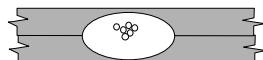
HAZ crack



Root crack

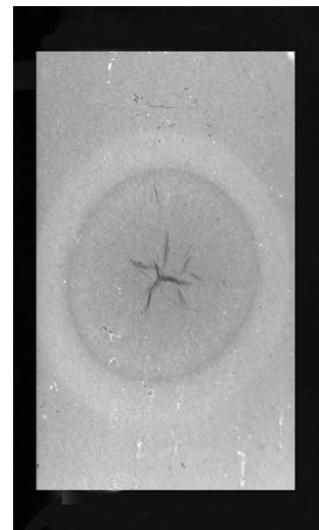
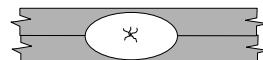
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Spot weld gas

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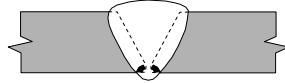


Spot weld crack

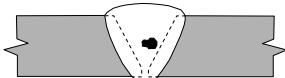
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**Interpass slag inclusions**

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**Elongated slag lines**

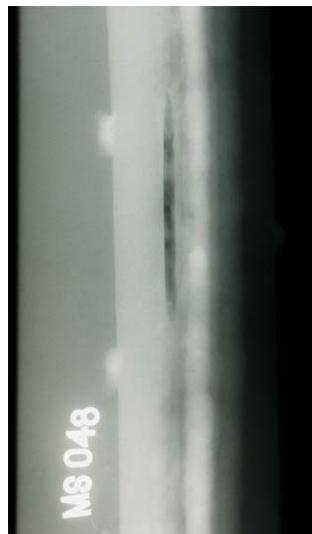
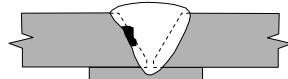
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**Slag inclusion**

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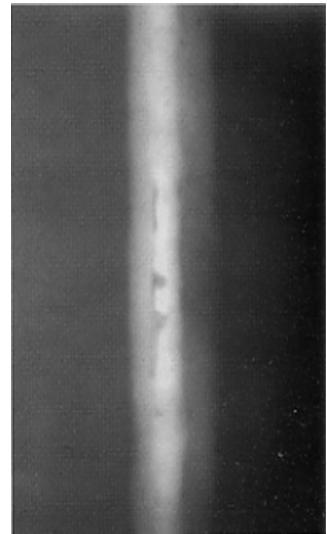
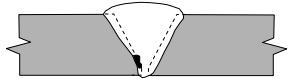
**Slag inclusions**

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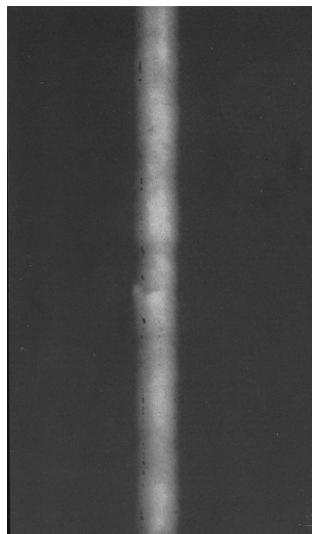
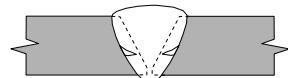
Lack of side wall fusion with slag

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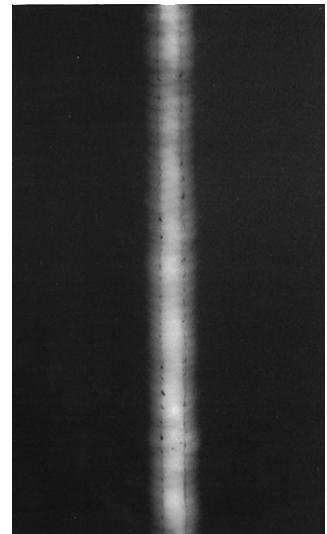
Lack of side wall fusion with slag

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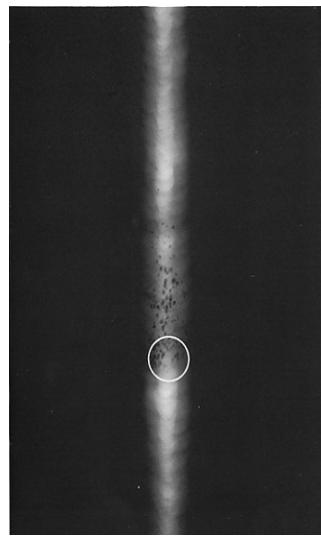
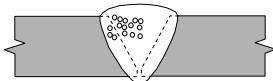
Lack of interpass fusion

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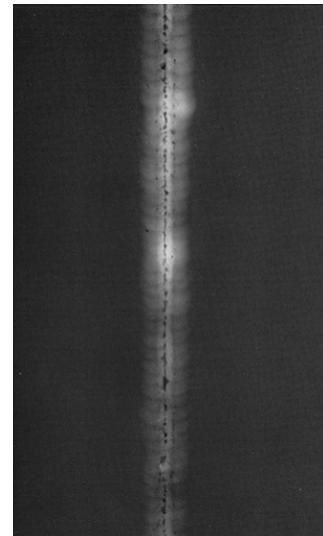
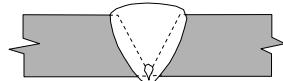


Lack of side wall fusion

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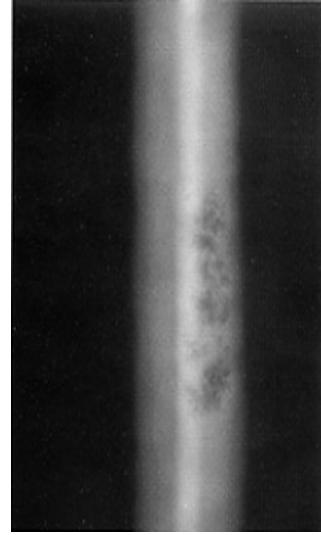
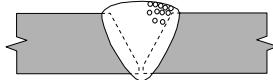
Cluster porosity



Root pass aligned porosity

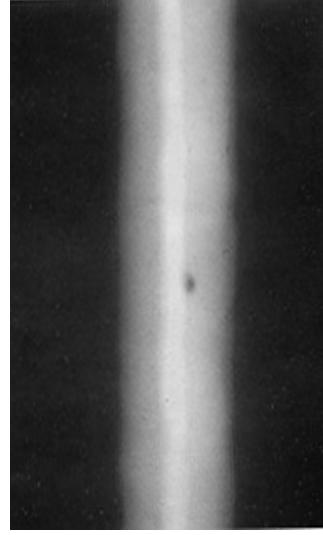
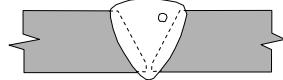
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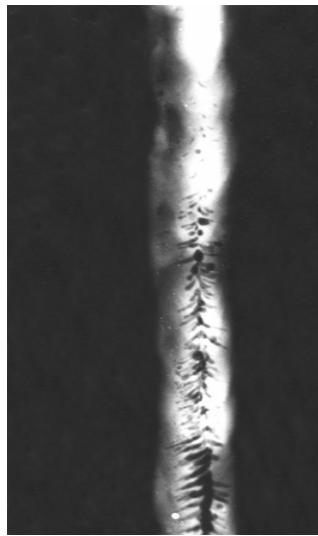
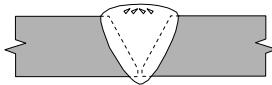
Porosity open to the surface

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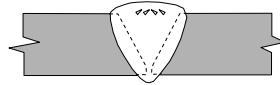
Single gas pore

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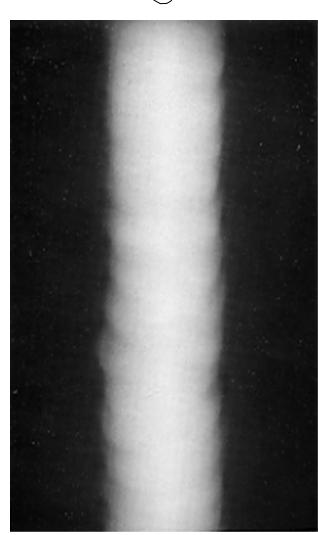
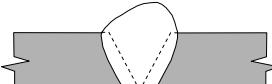
Herring bone porosity

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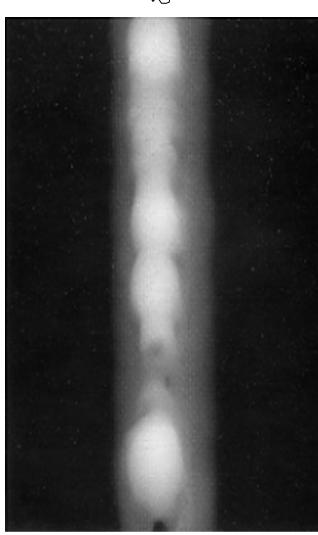
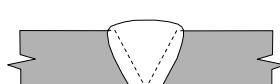
Herring bone porosity

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Excess cap reinforcement

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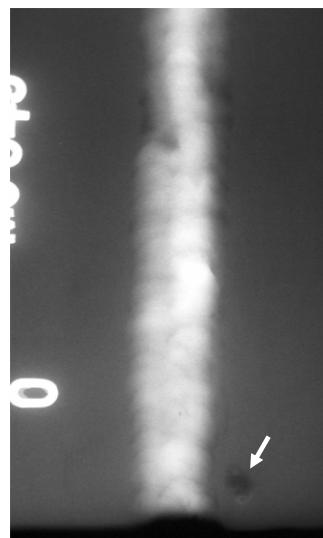
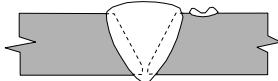


Poor root profile

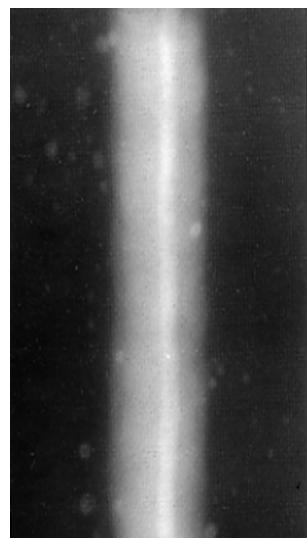
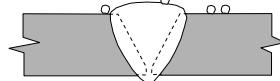
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TECHNOLOGY



Arc strike



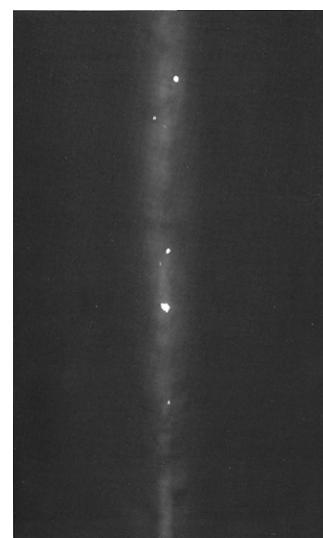
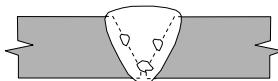
Spatter

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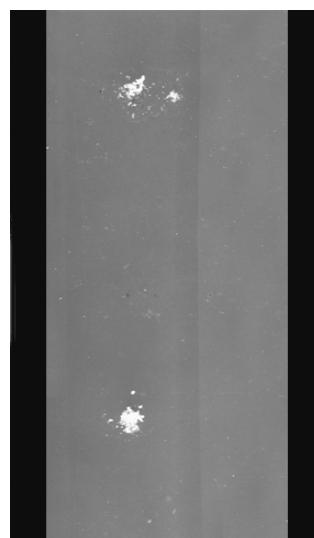
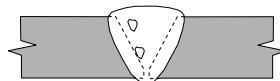


TECHNOLOGY



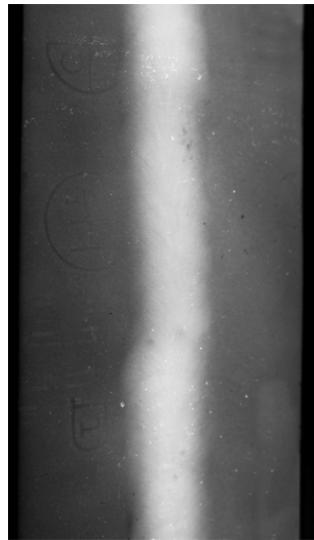
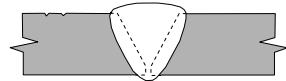
Tungsten inclusions

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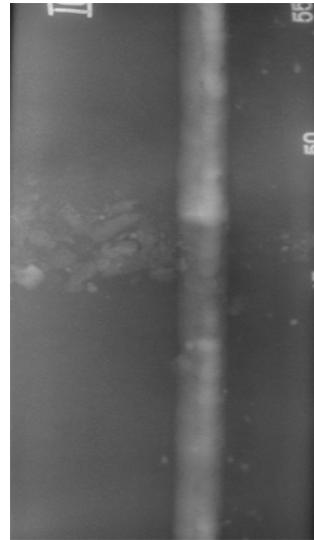
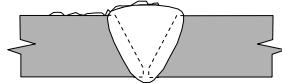
Copper inclusions

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Hard stampings

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Debris

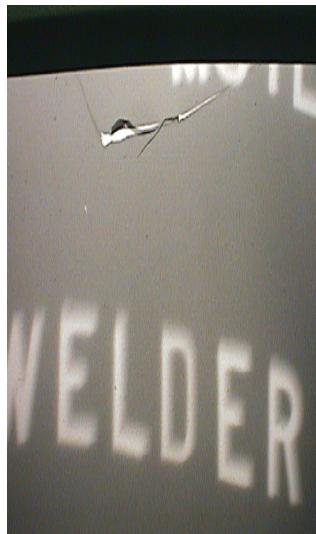
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Artifacts

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Film Scratches



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Chemical Marks



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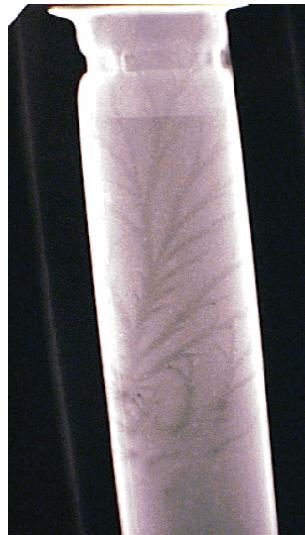
Light Leaks



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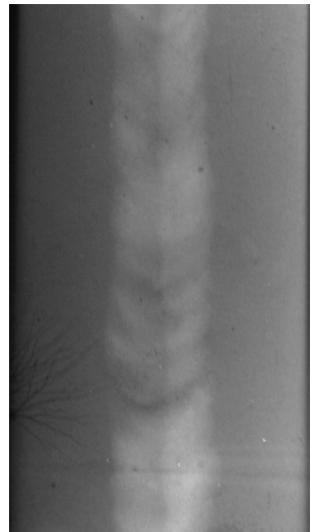
Static Discharge



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Static Discharge



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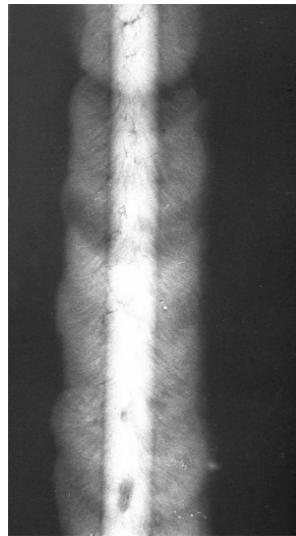
Reticulation



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Diffraction Mottle



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Dust, Lint, Grime Marks



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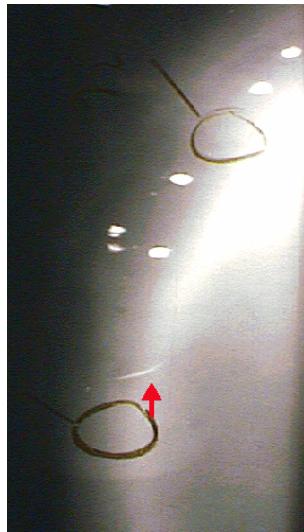
Water Marks



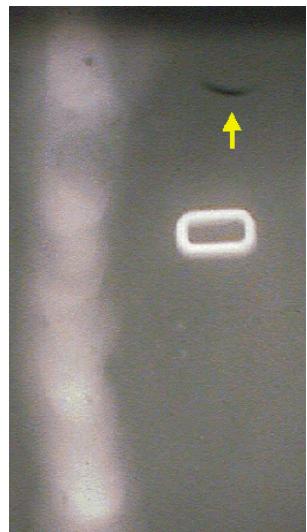
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Crimping Marks



Before Exposure

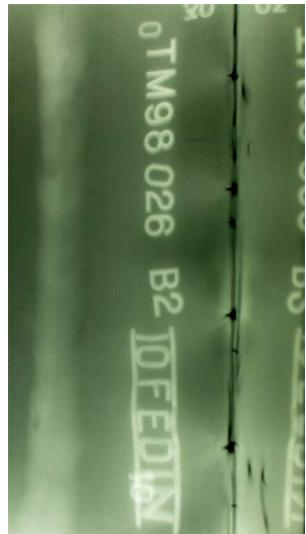


After Exposure

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Other Artifacts



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