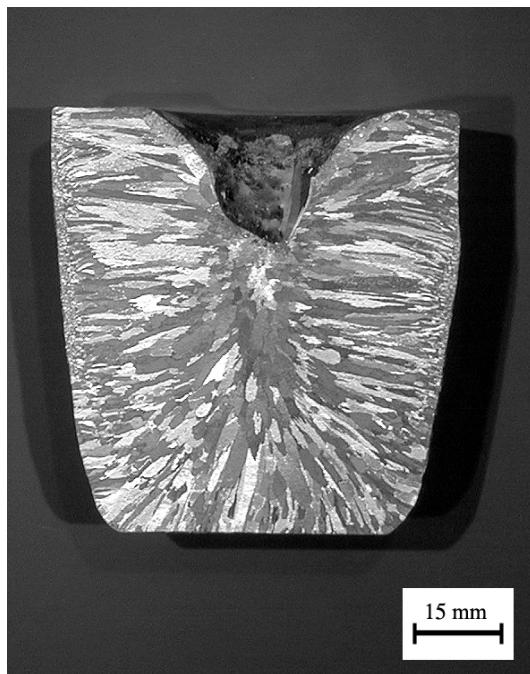
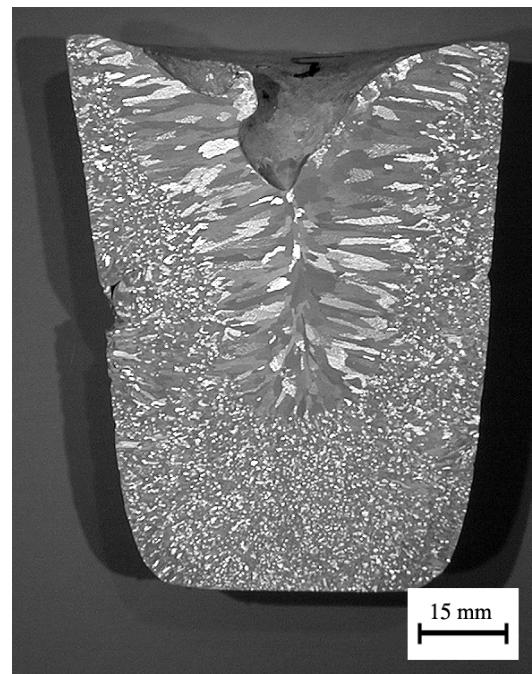


ME 330: Engineering Materials
Appendix—Aluminum Casting Macrostructures



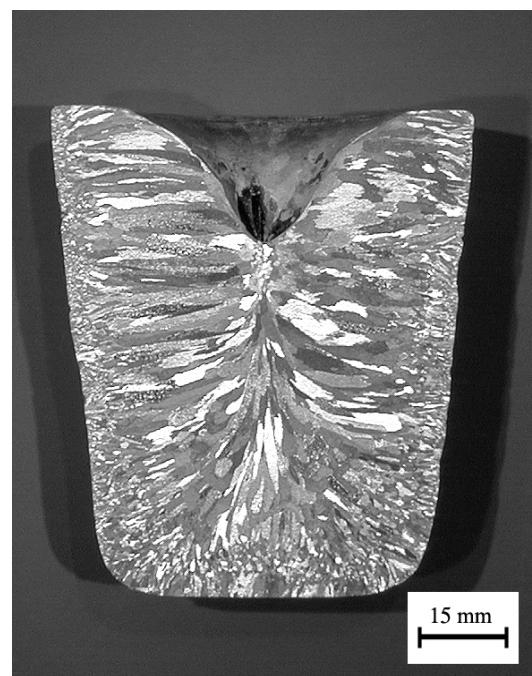
Composition: 0.2% Cu in Al
Mold type: Graphite
Superheat: 70 °C



Composition: 0.2% Cu in Al
Mold Type: Graphite
Superheat: 50 °C

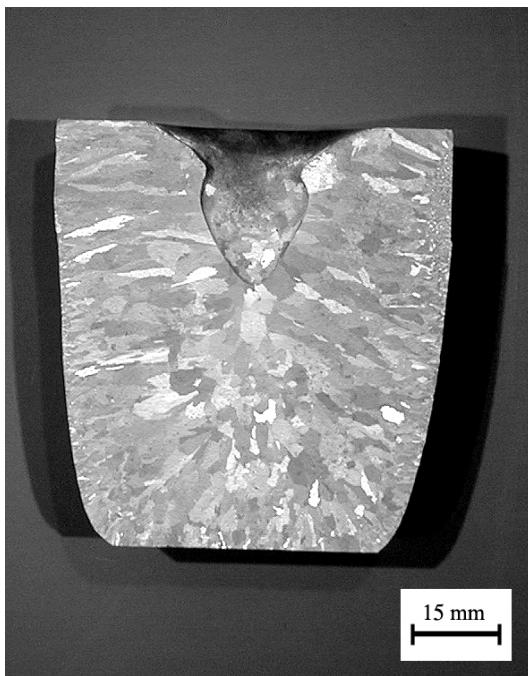


Composition: 5% Cu in Al
Mold type: Sand
Superheat: 50 °C

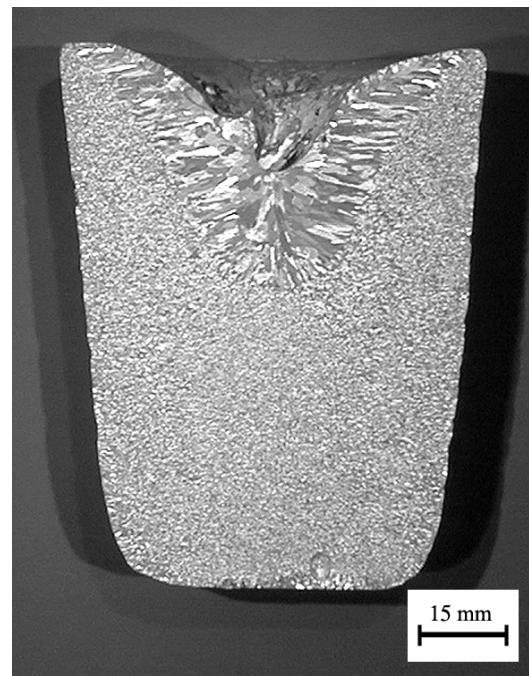


Composition: 99.9% Al
Mold Type: Graphite
Superheat: 60 °C water cooled mold

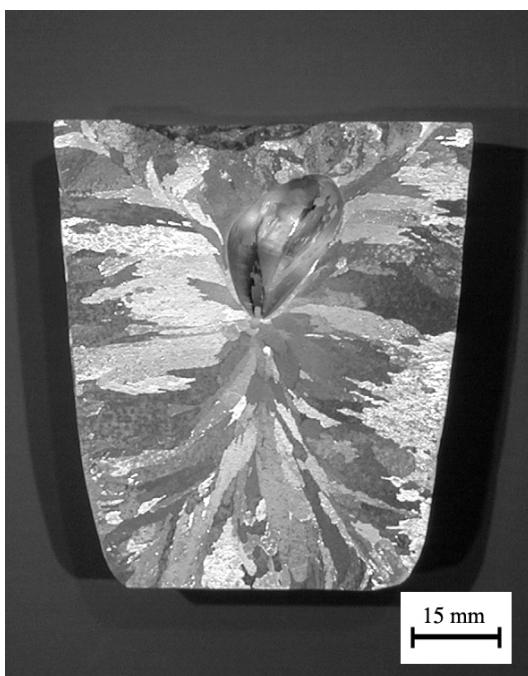
ME 330: Engineering Materials
Appendix—Aluminum Casting Macrostructures



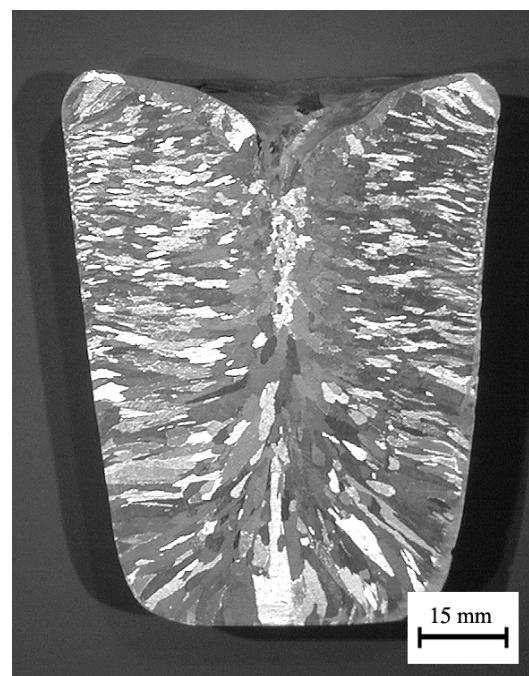
Composition: 1.5% Cu in Al
Mold type: Graphite
Superheat: 70 °C



Composition: 0.04% Ti in Al
Mold Type: Graphite
Superheat: 40 °C



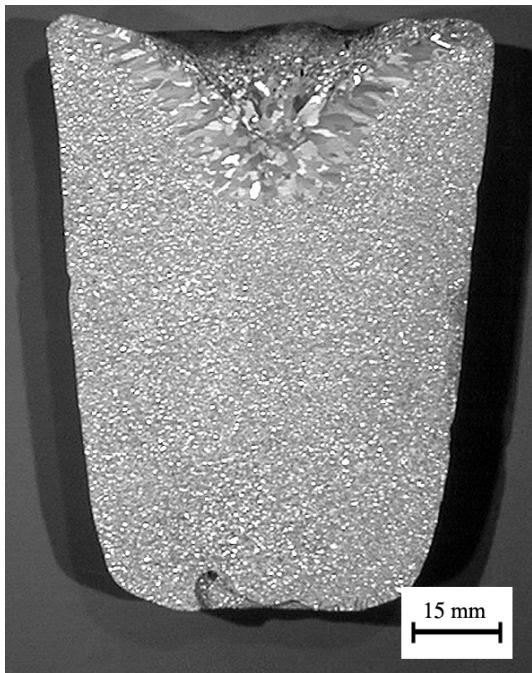
Composition: 99.9% Al
Mold type: Sand
Superheat: 70 °C



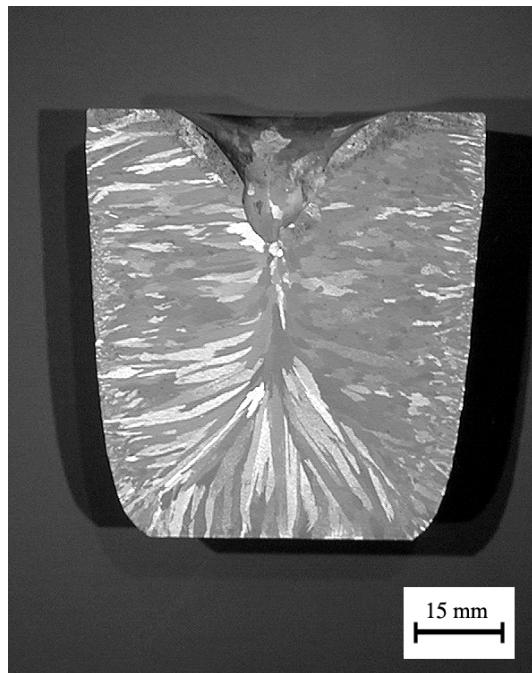
Composition: 99.9% Al
Mold Type: Graphite
Superheat: 50 °C

ME 330: Engineering Materials

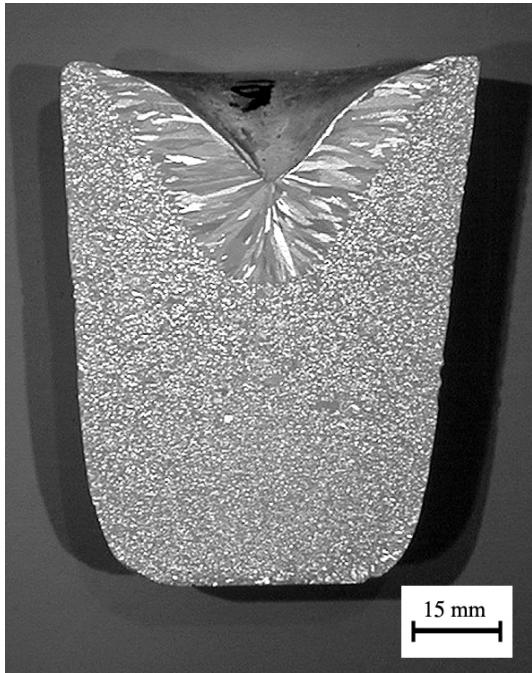
Appendix—Aluminum Casting Macrostructures



Composition: 1.5% Cu in Al
Mold type: Graphite
Superheat: 50 °C



Composition: 99.9% Al
Mold Type: Graphite
Superheat: 70 °C



Composition: 0.2% Cu in Al
Mold type: Graphite
Superheat: 50 °C aerated mold



Composition: 0.04% Ti in Al
Mold Type: Sand
Superheat: 40 °C