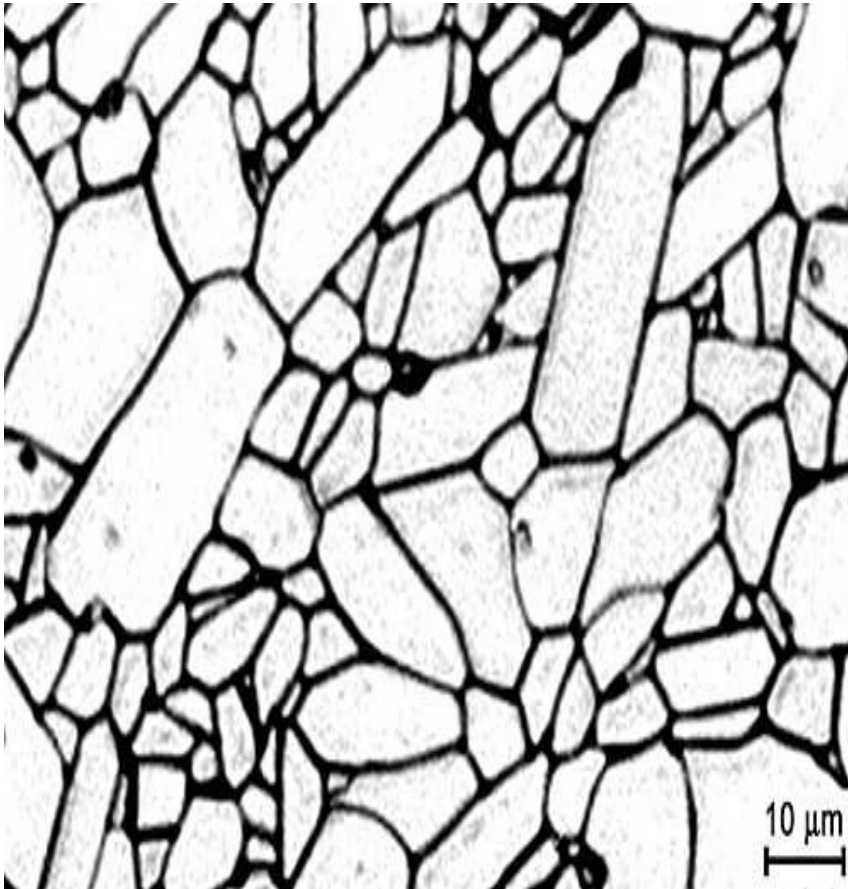
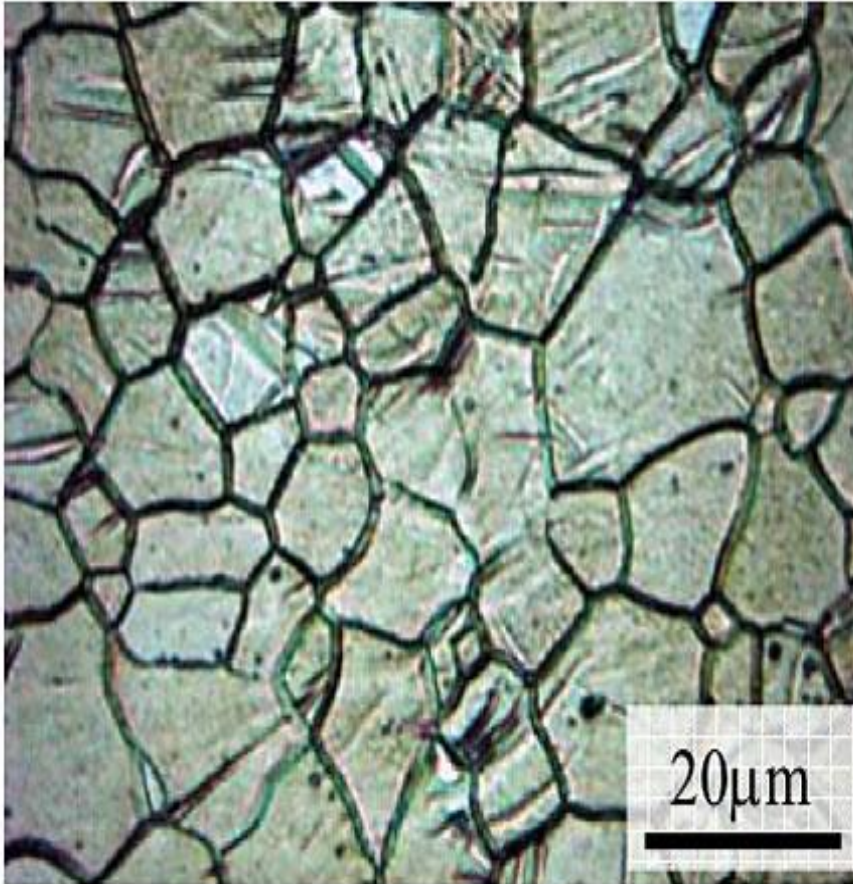


# *Aluminium*



- Ultimate tens. Strength(psi) **45000**
- Yield strength (psi) **40000**
- Elongation % **17%**
- Hardness Rockwell or Brinell **95**
- Modulus of Elasticity (psi) **10000**
- Machinability **50%**

# Magnesium



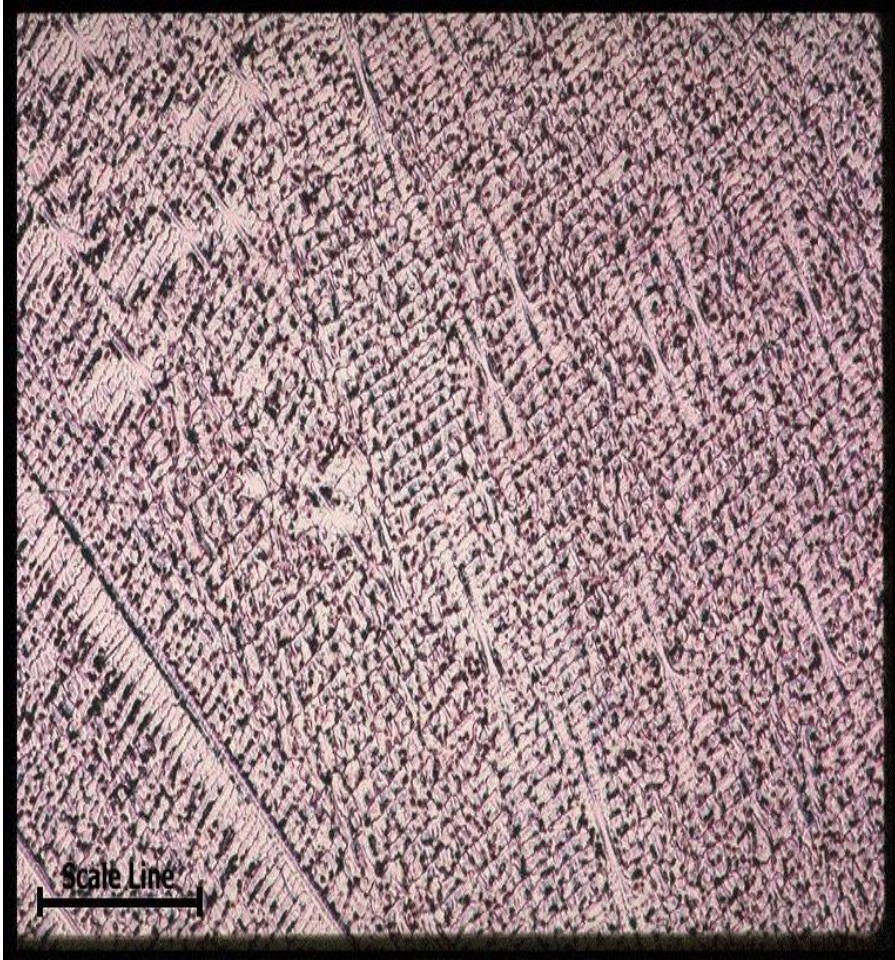
- Ultimate tens. Strength(psi) **31908**
- Yield strength (psi) **18854.9**
- Elongation % **6%**
- Hardness Rockwell or Brinell **70**
- Modulus of Elasticity (psi)  **$6.5 \cdot 10^6$**
- Machinability **50%**

# Zinc



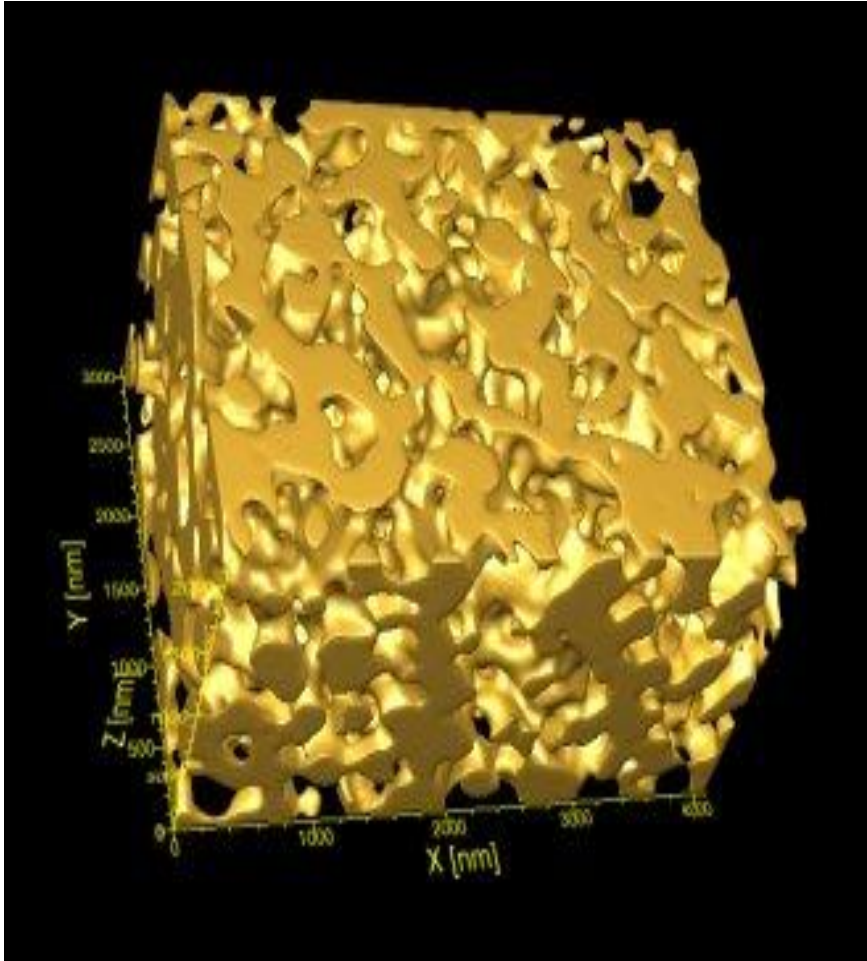
- Ultimate tens. Strength(psi) **21755**
- Yield strength (psi) -
- Elongation % **65%**
- Hardness Rockwell or Brinell **30**
- Modulus of Elasticity (psi) **107**
- Machinability

# Nickel



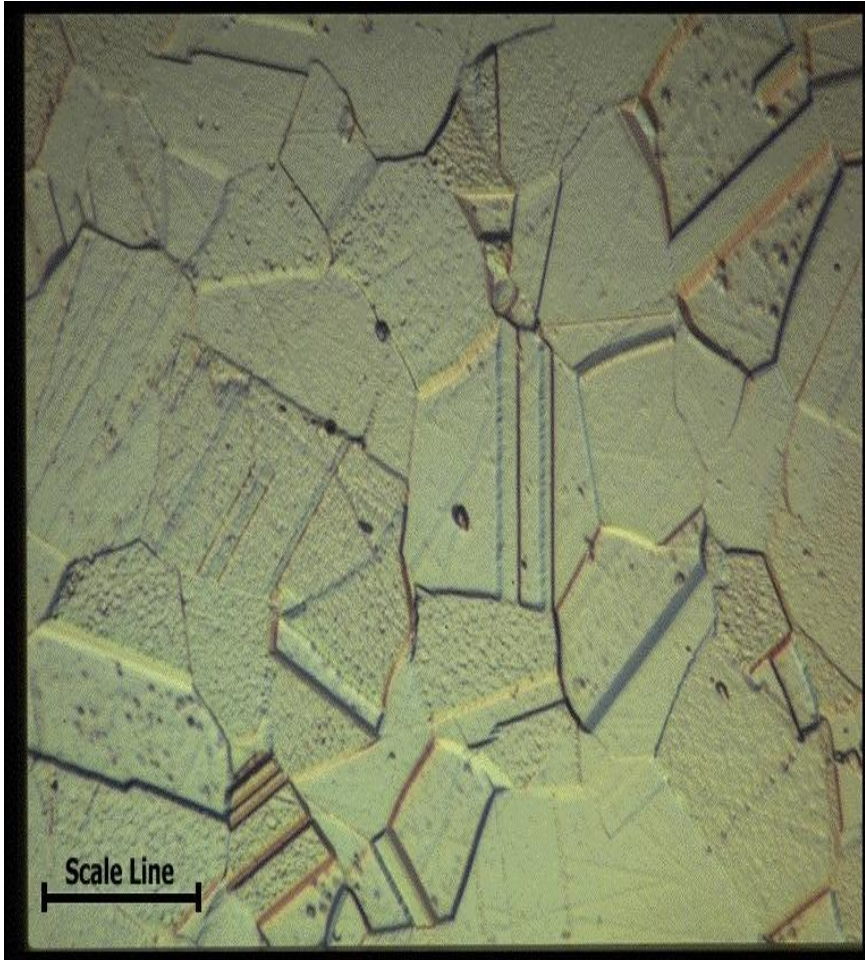
- Ultimate tens. Strength(psi) **26106.8**
- Yield strength (psi) **29007.5**
- Elongation % **47%**
- Hardness Rockwell or Brianel **66.7**
- Modulus of Elasticity (psi)
- Machinability

# Gold



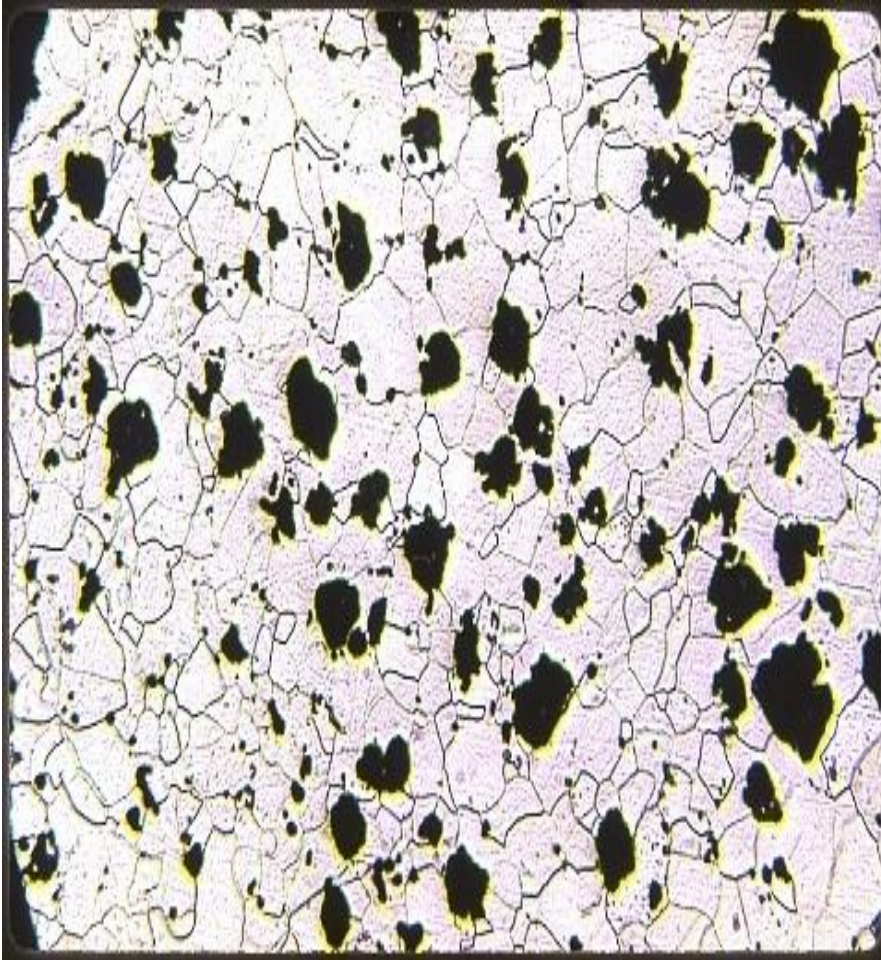
- Ultimate tens. Strength(psi) **14503.7**
- Yield strength (psi) **34809**
- Elongation %
- Hardness Rockwell or Brinell **27267**
- Modulus of Elasticity (psi)  **$11 \cdot 10^6$**
- Machinability

# Copper



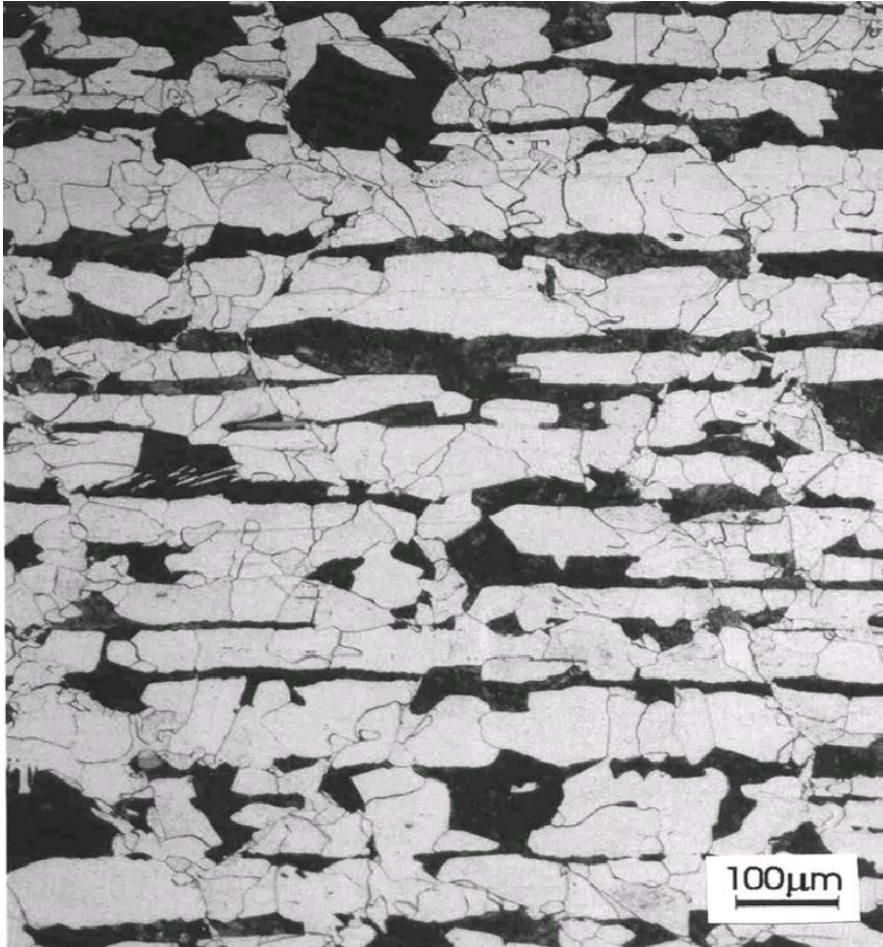
- Ultimate tens. Strength(psi) **30457.9**
- Yield strength (psi) **16969**
- Elongation % **10-20%**
- Hardness Rockwell or Brinell **54**
- Modulus of Elasticity (psi)  **$17 \cdot 10^6$**
- Machinability

# Cast Iron



- Ultimate tens. Strength(psi) **50763**
- Yield strength (psi) 13053
- Elongation % **0.5%**
- Hardness Rockwell or Brinell **260**
- Modulus of Elasticity (psi)  **$11 \cdot 10^6$**
- Machinability

# *Silver*



- Ultimate tens. Strength(psi) **24656**
- Yield strength (psi) **17984.7**
- Elongation % **41%**
- Hardness Rockwell or Brinell **123**
- Modulus of Elasticity (psi) **1522.9**
- Machinability