

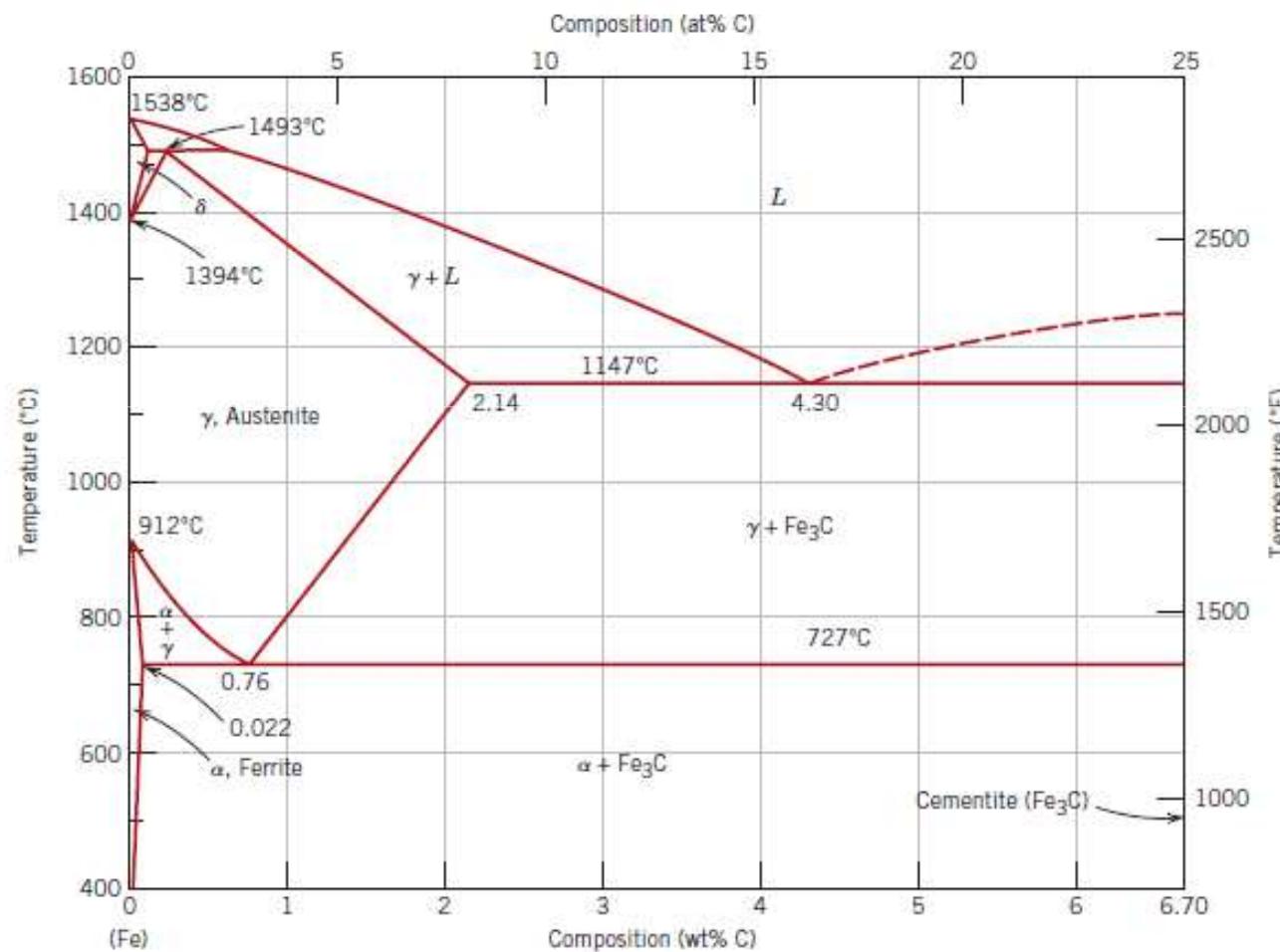
09

MATERIAIS DE CONSTRUÇÃO MECÂNICA

Engenharia de Produção Mecânica

Prof. Luis Fernando Maffeis

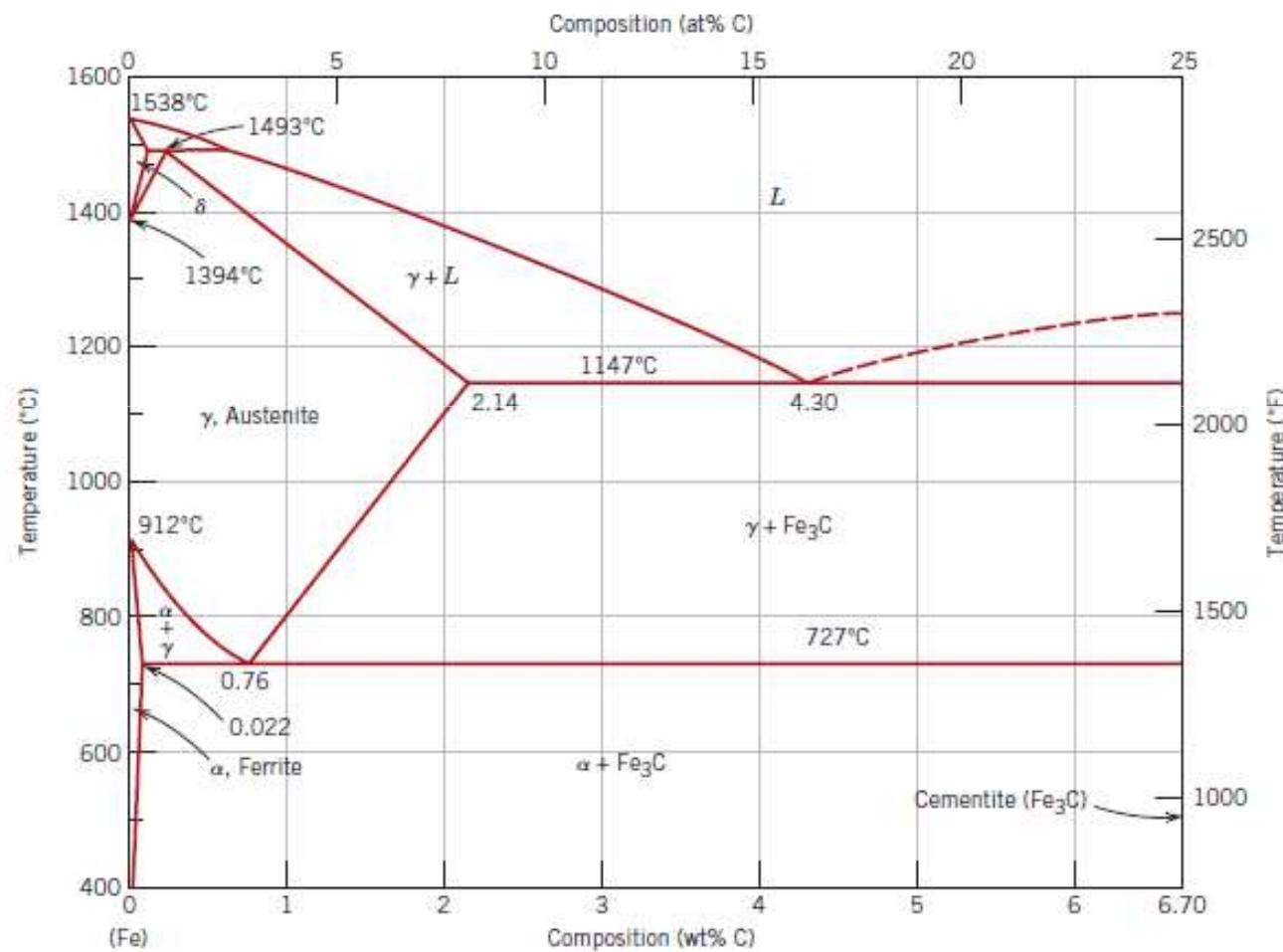
Diagramas Fe- Fe_3C



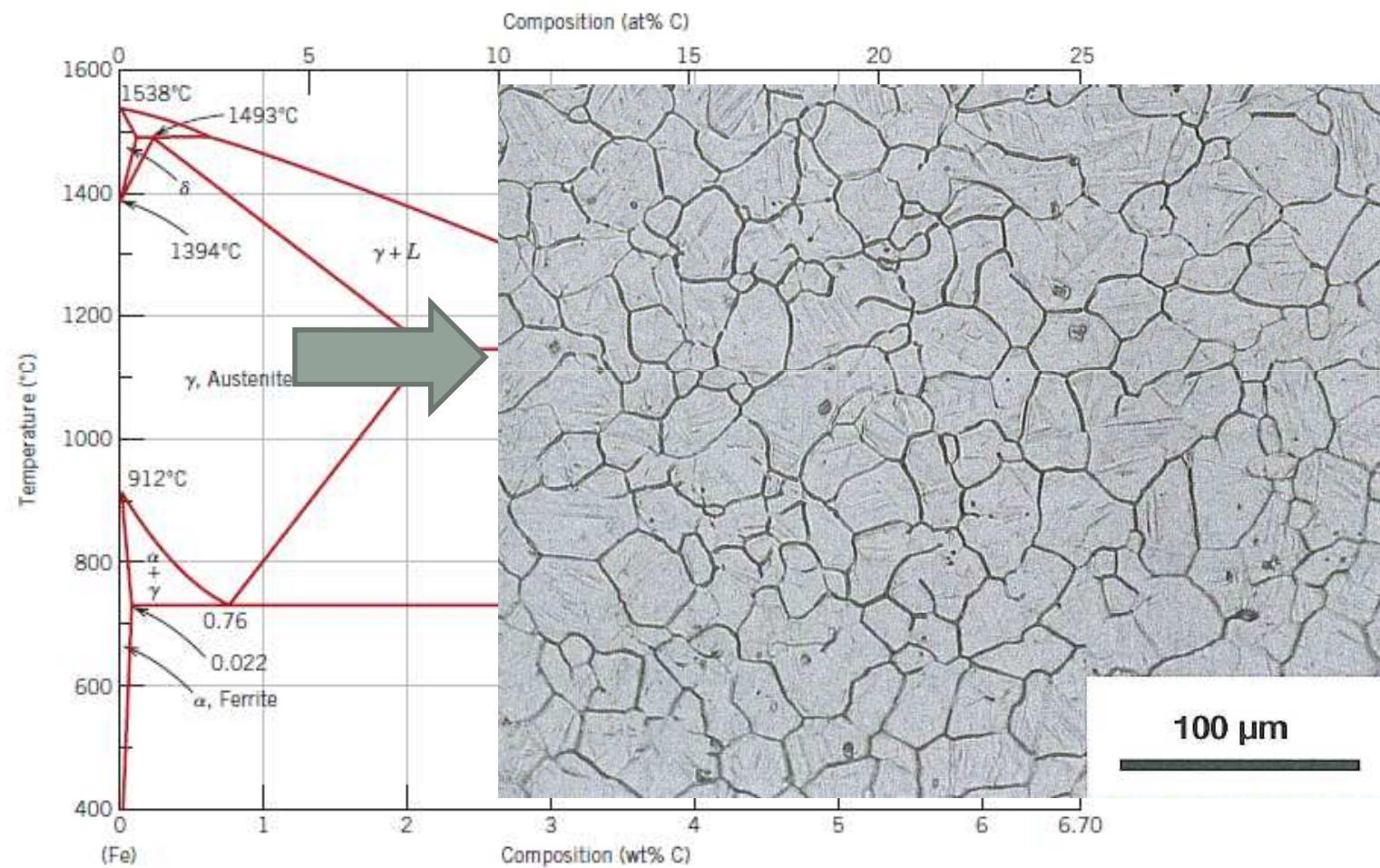
Ferro

- $T < 912 \text{ } ^\circ\text{C}$ -- cúbica de corpo centrado (CCC)
- $912 < T < 1394 \text{ } ^\circ\text{C}$ -- cúbica de faces centradas (CFC)
- $1394 < T < 1538 \text{ } ^\circ\text{C}$ -- cúbica de corpo centrado (CCC)
- $T > 1538 \text{ } ^\circ\text{C}$ -- líquido

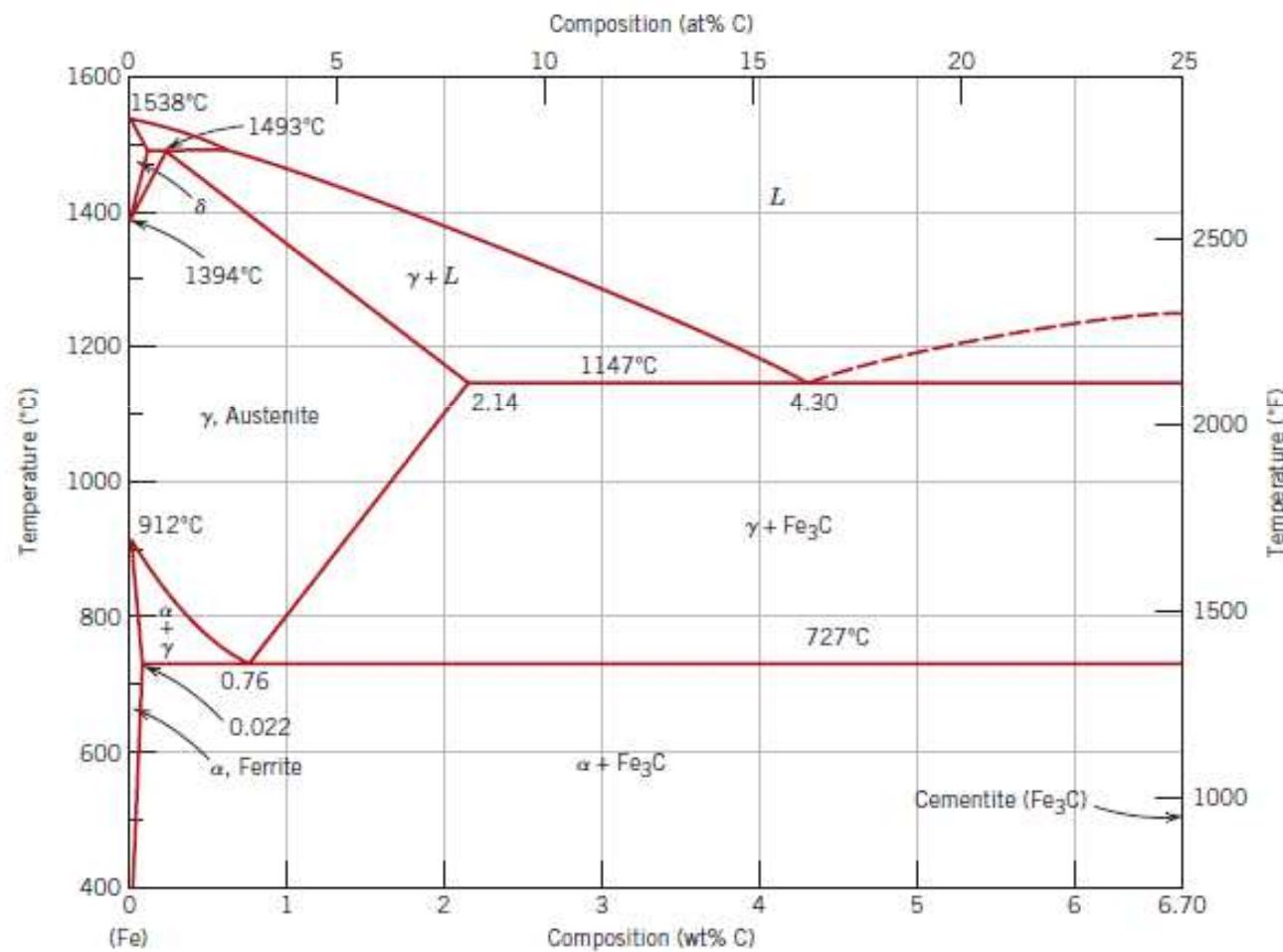
Diagramas Fe- Fe_3C



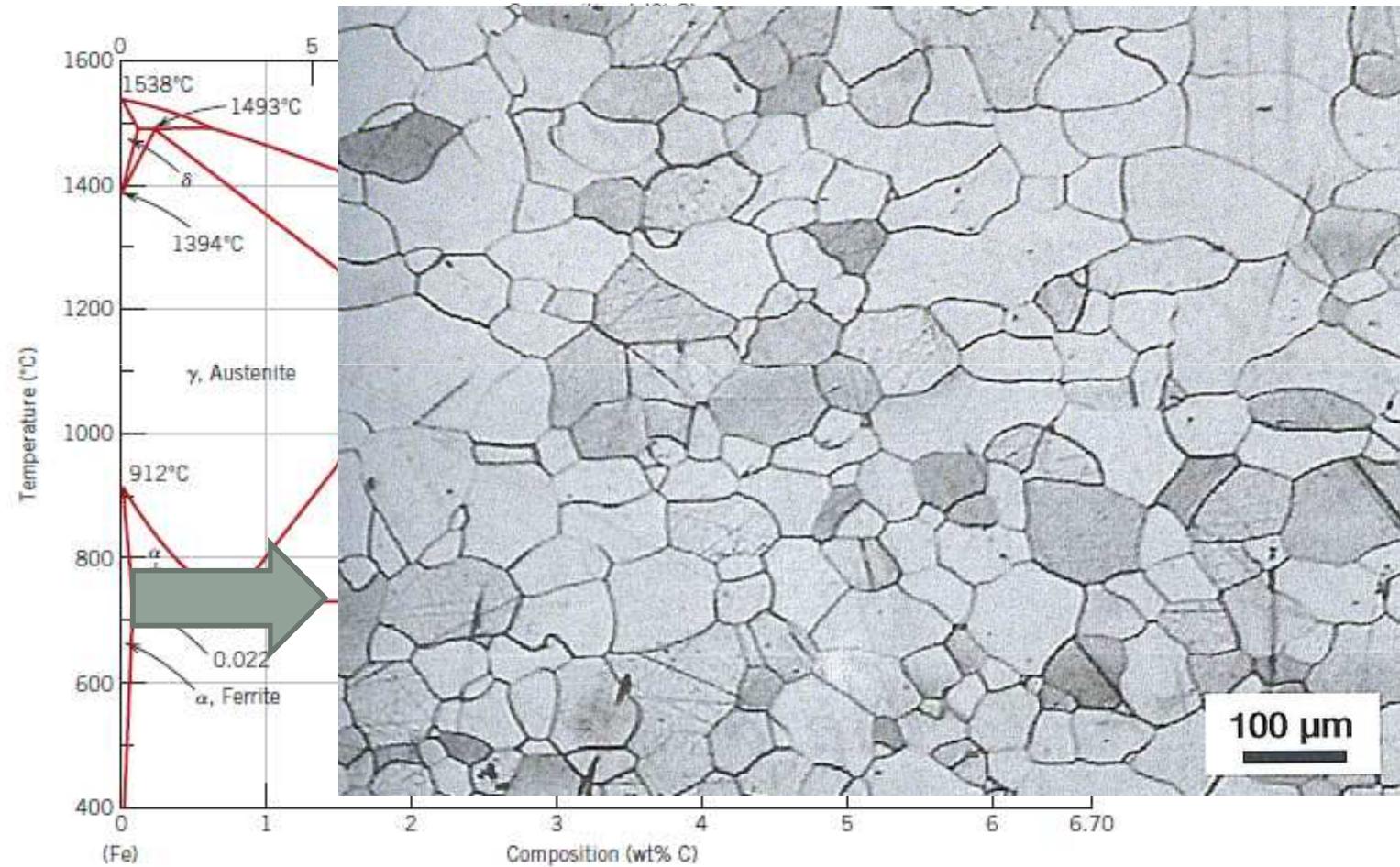
austenita γ



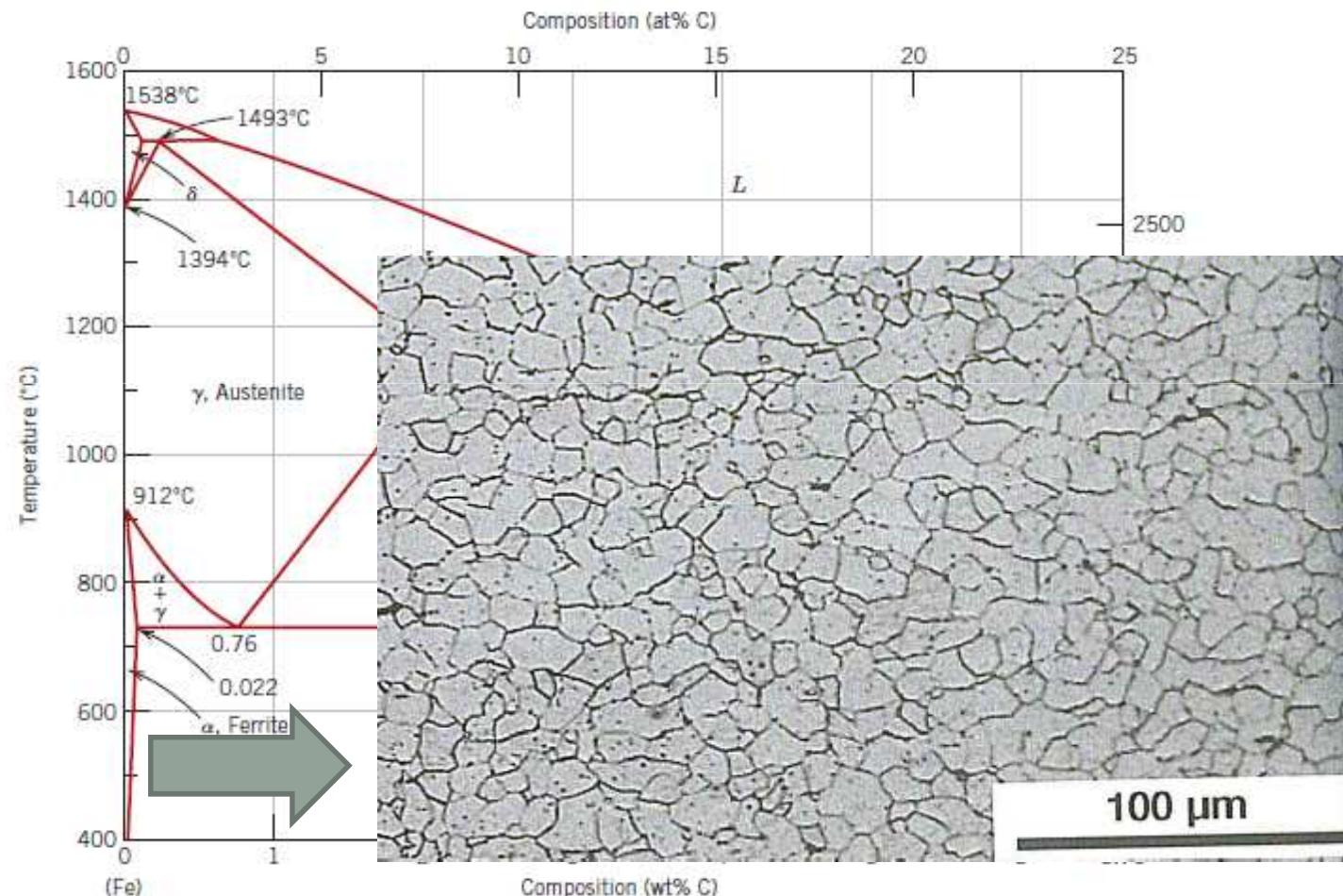
Diagramas Fe- Fe_3C

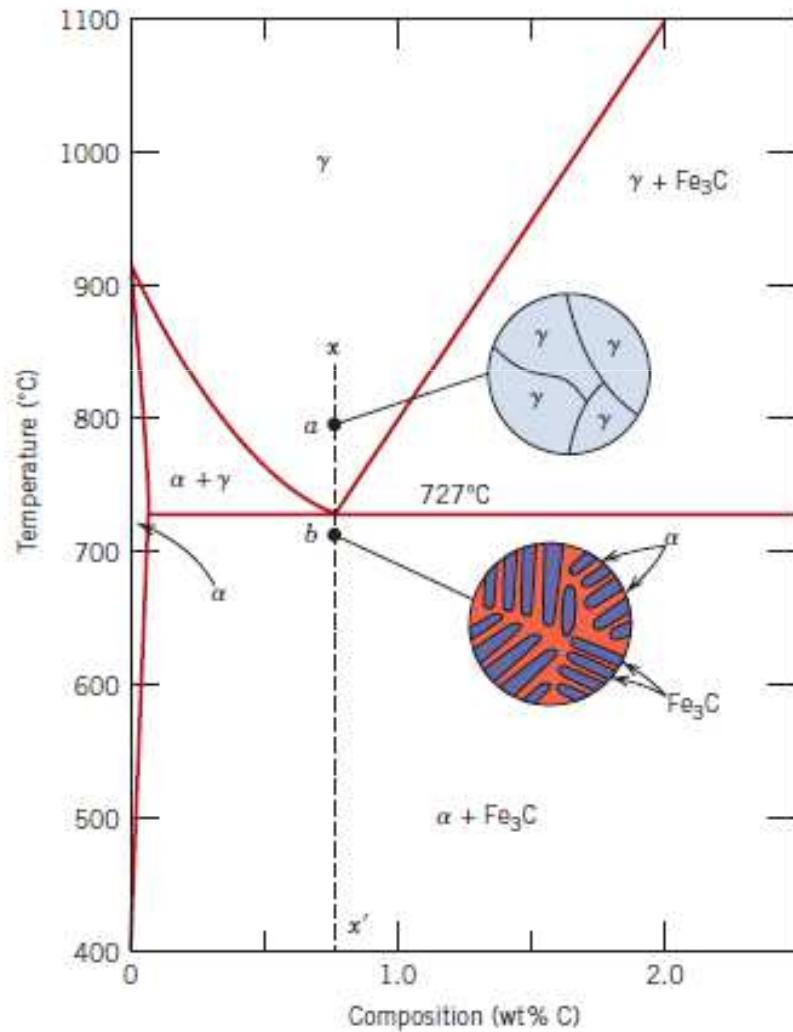


ferrita α



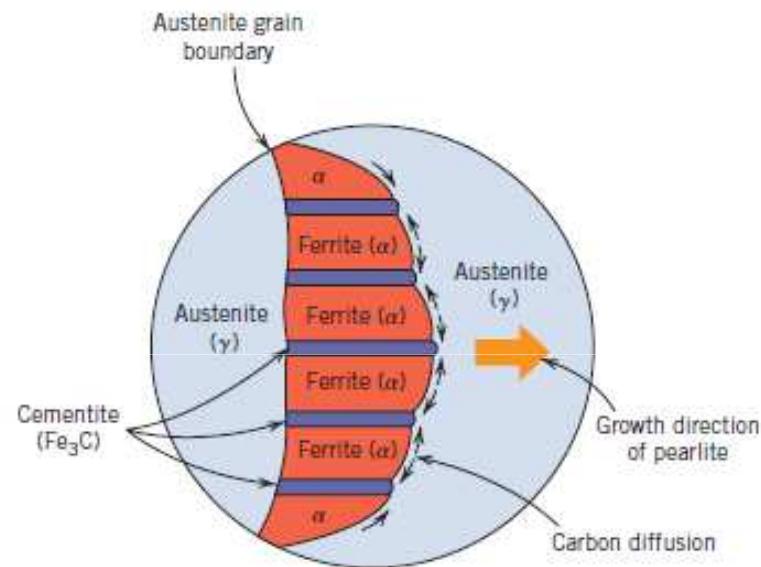
ferrita α + cementita (Fe_3C)



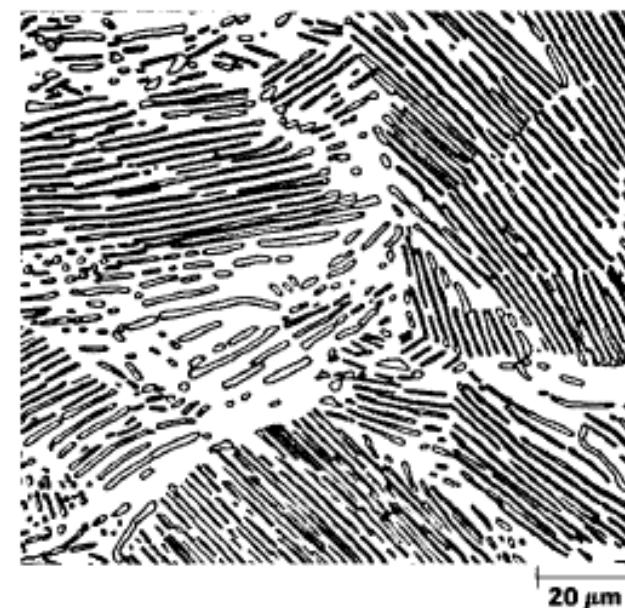


Aço eutetóide
%C = 0,76

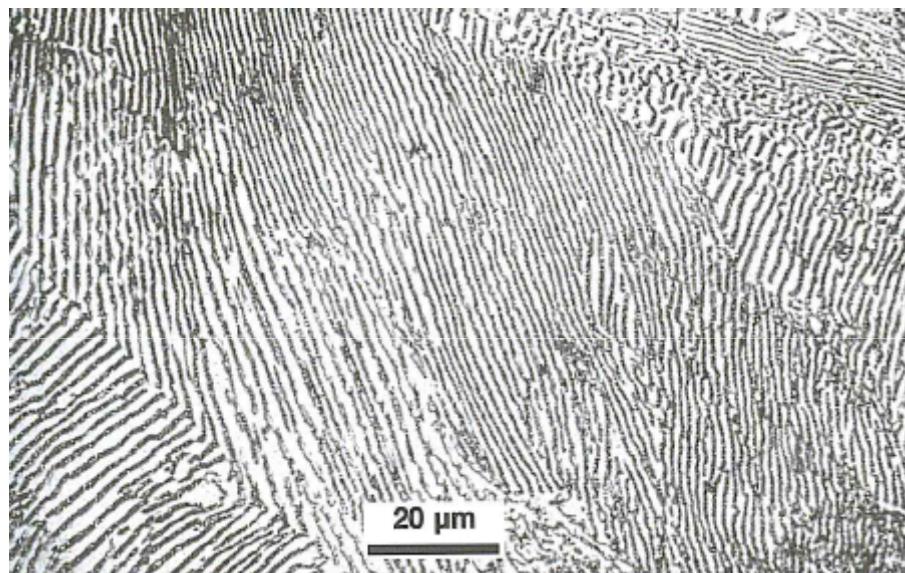
Perlita



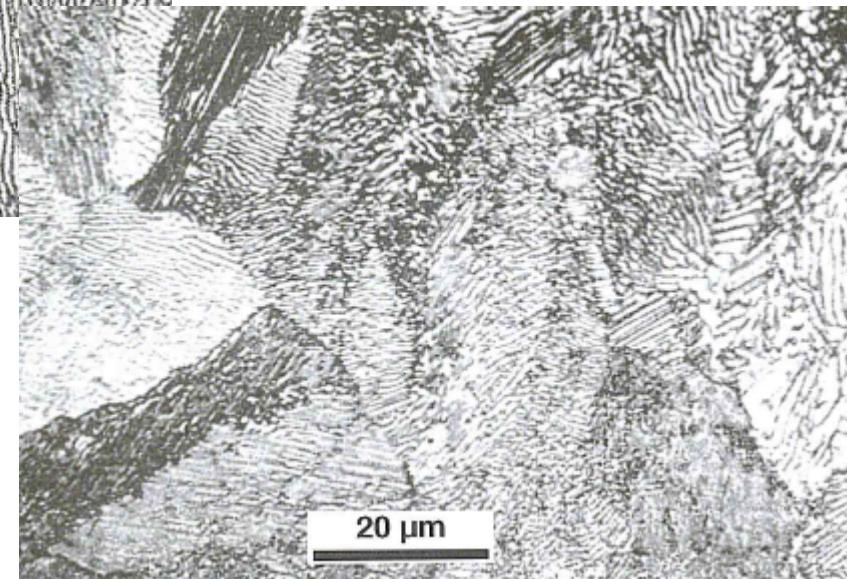
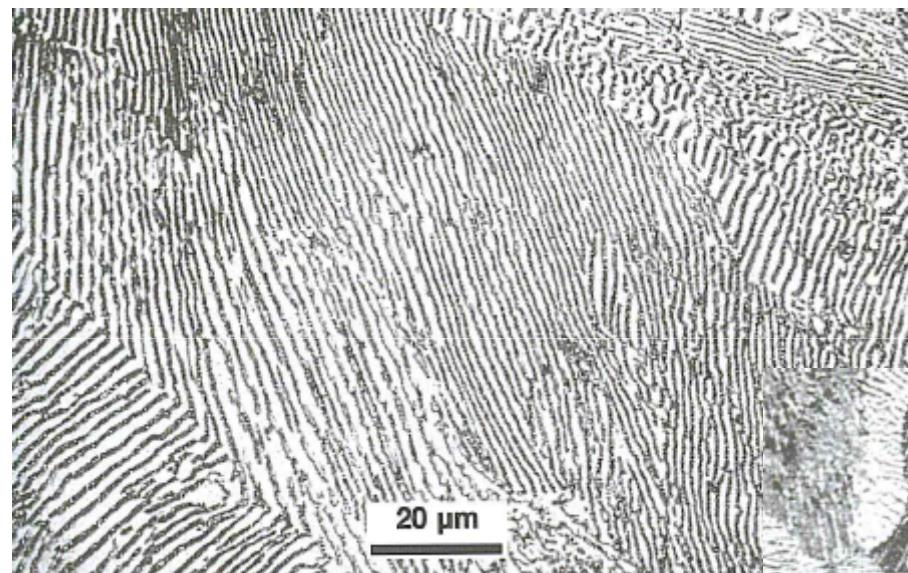
α + Fe_3C com forma lamelar

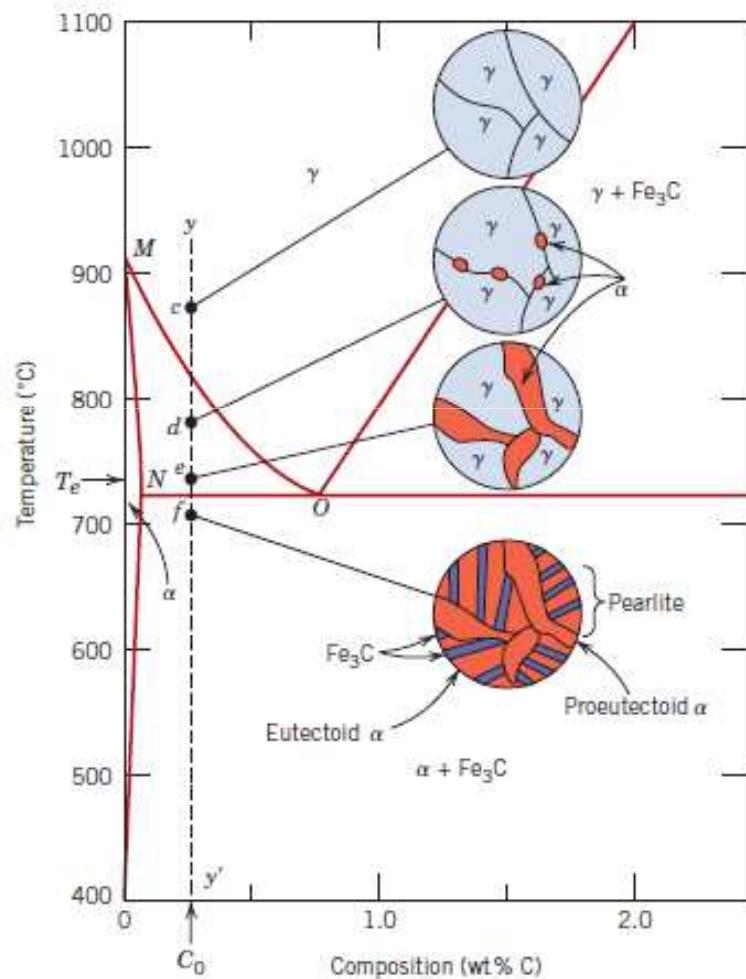


Perlita



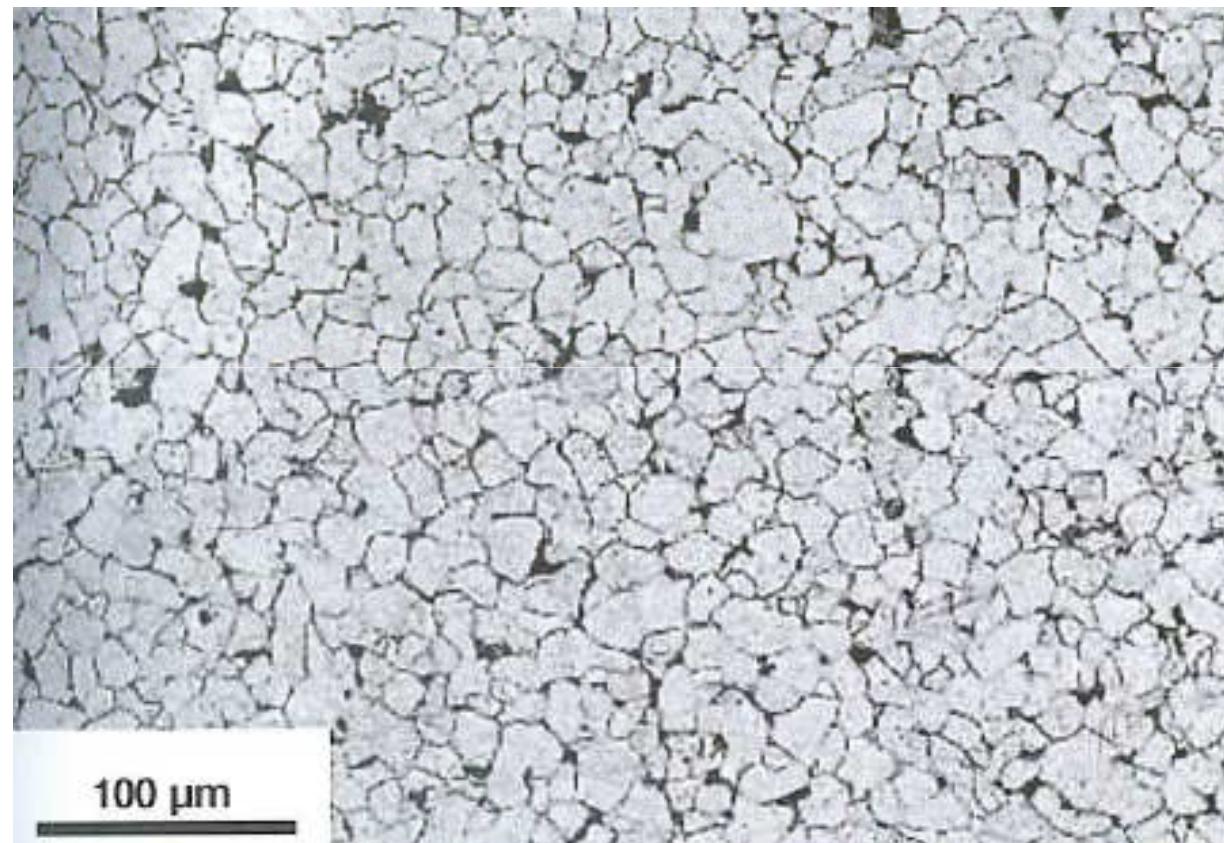
Perlite



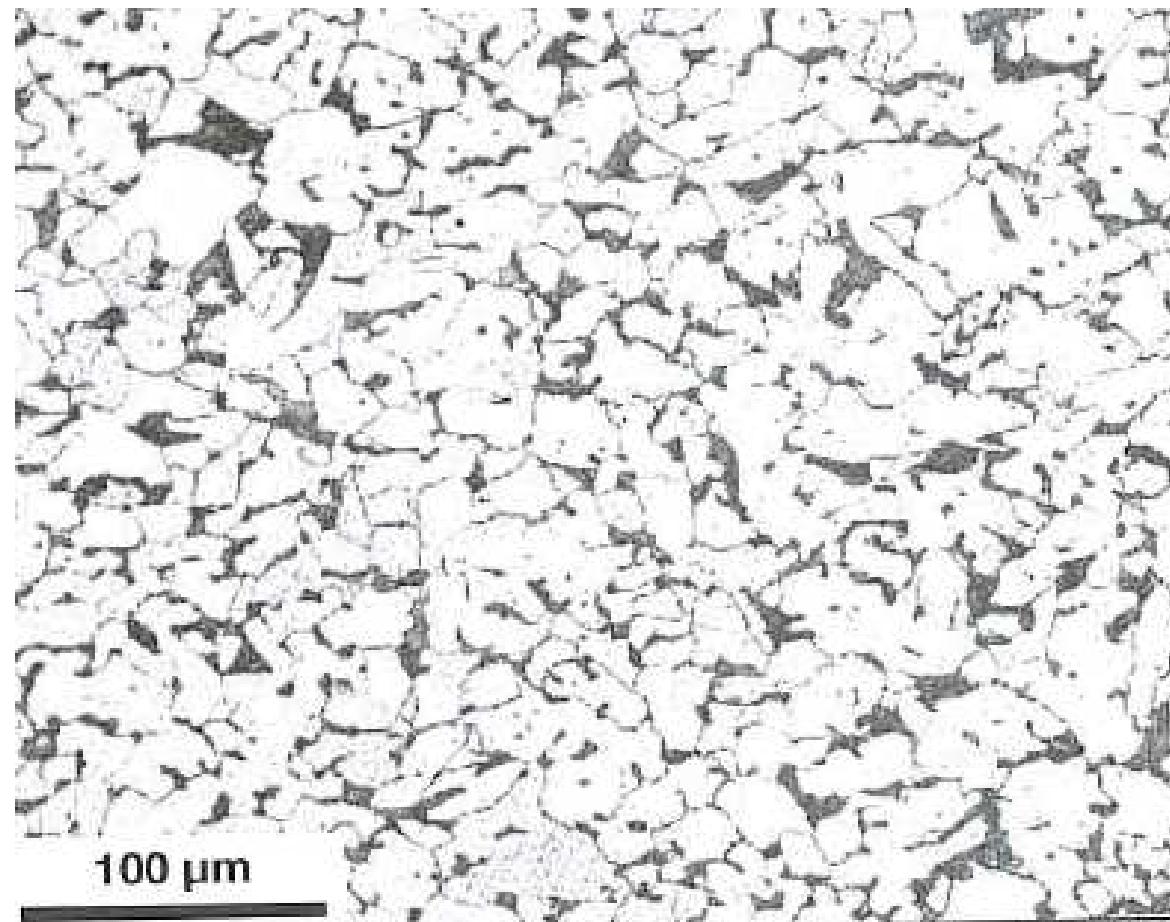


Aço hipoeutetóide
%C < 0,76

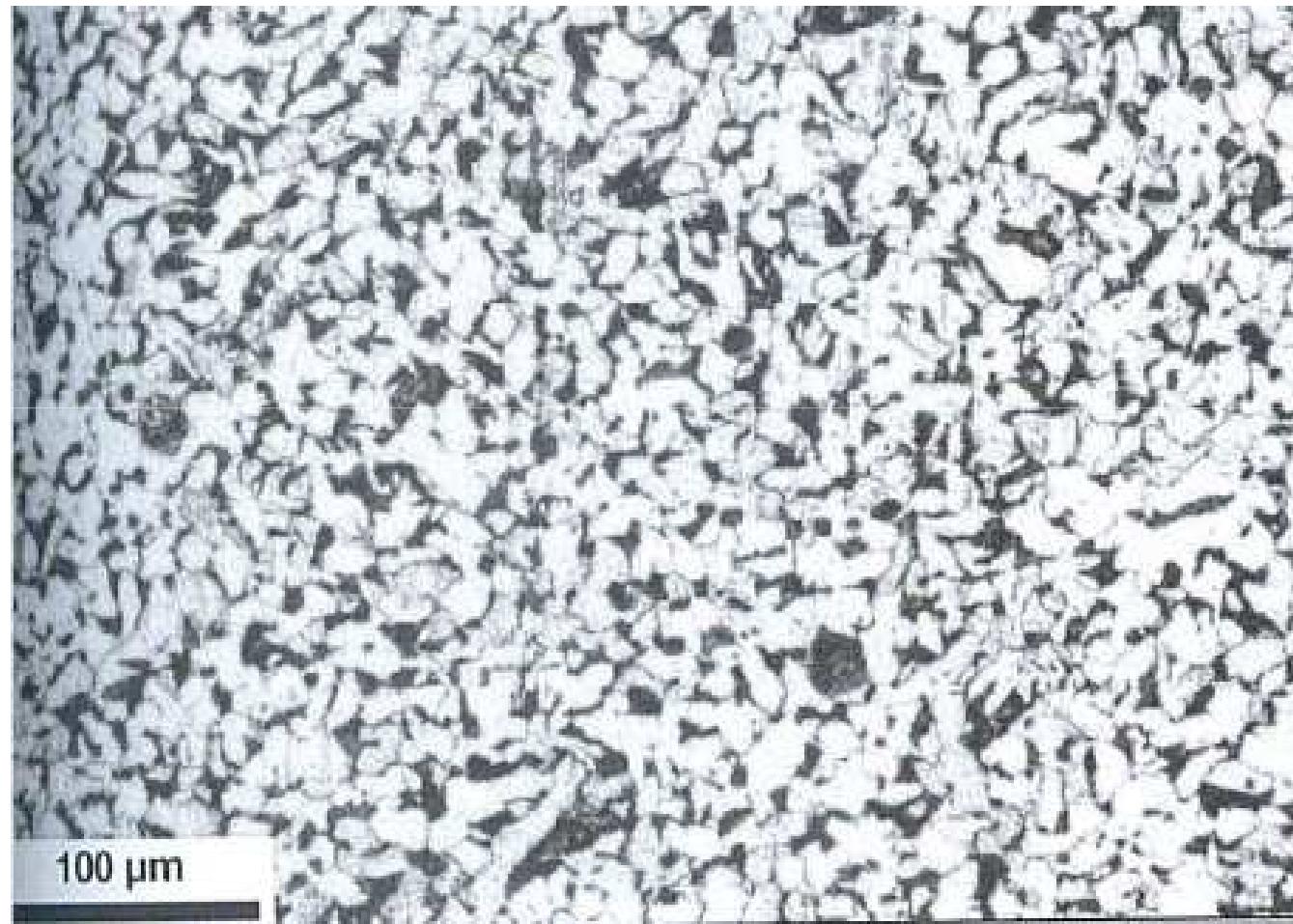
SAE 1006 – ferrita + perlita



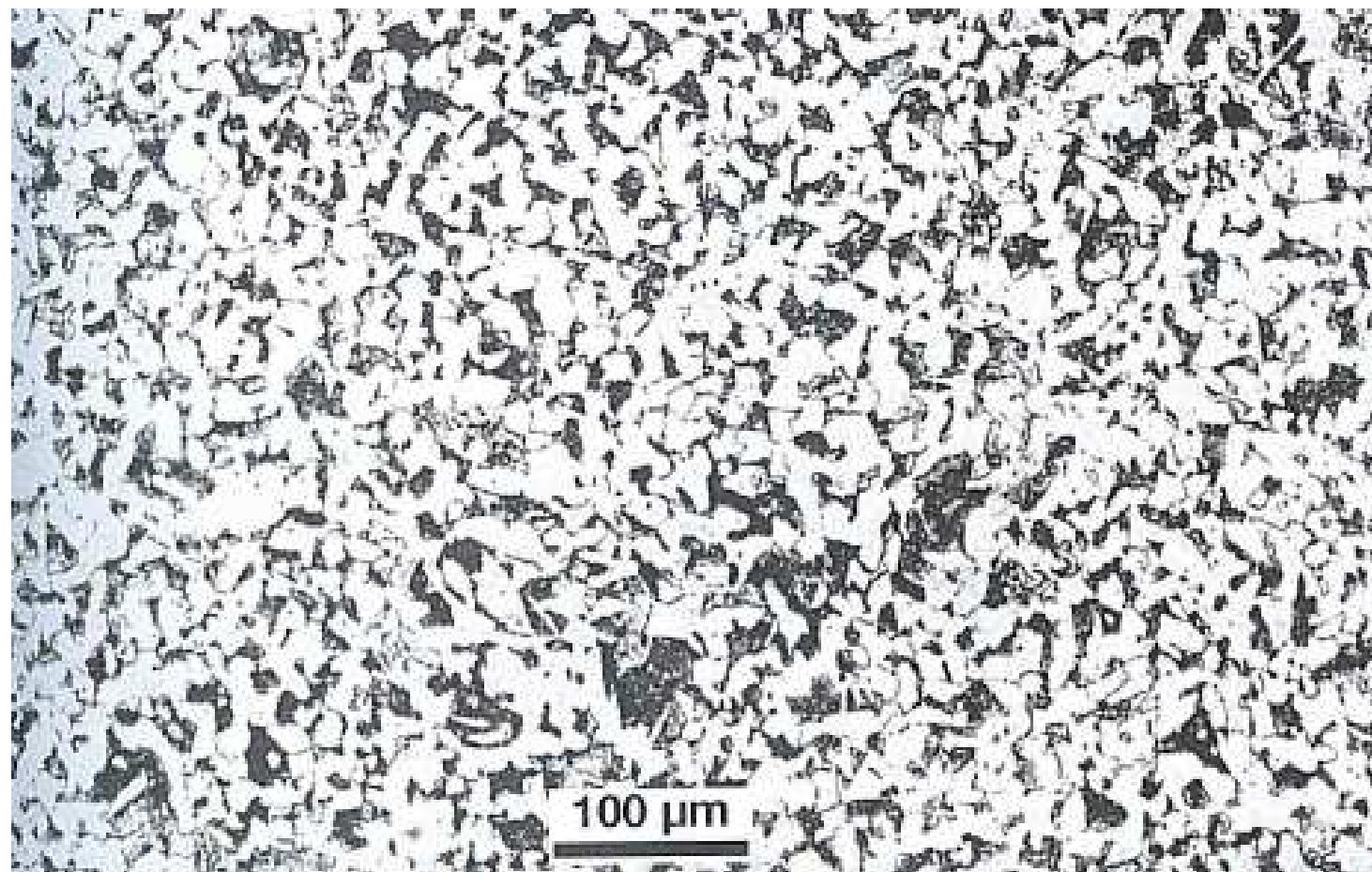
SAE 1010 – ferrita + perlita



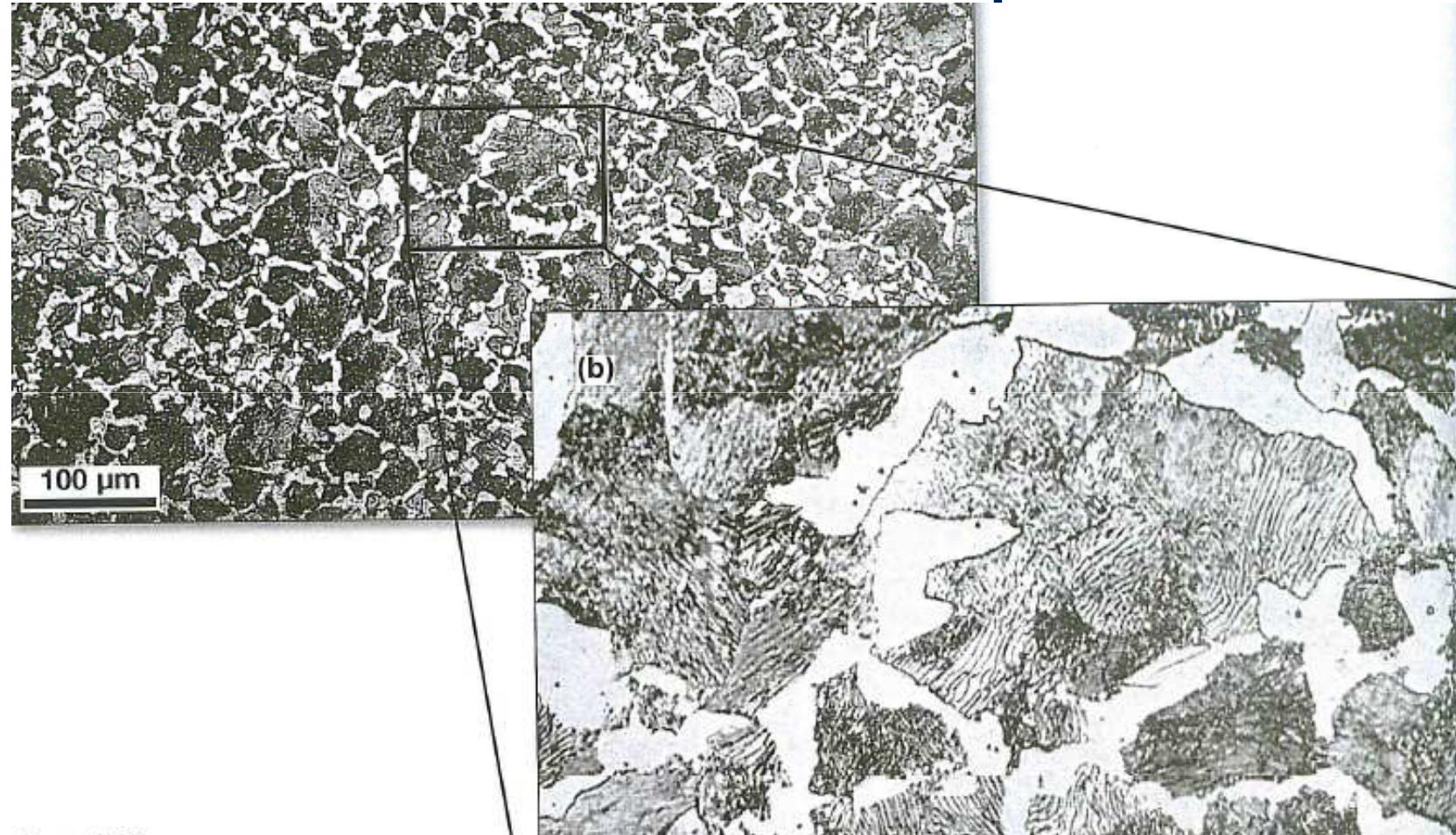
SAE 1015 – ferrita + perlita



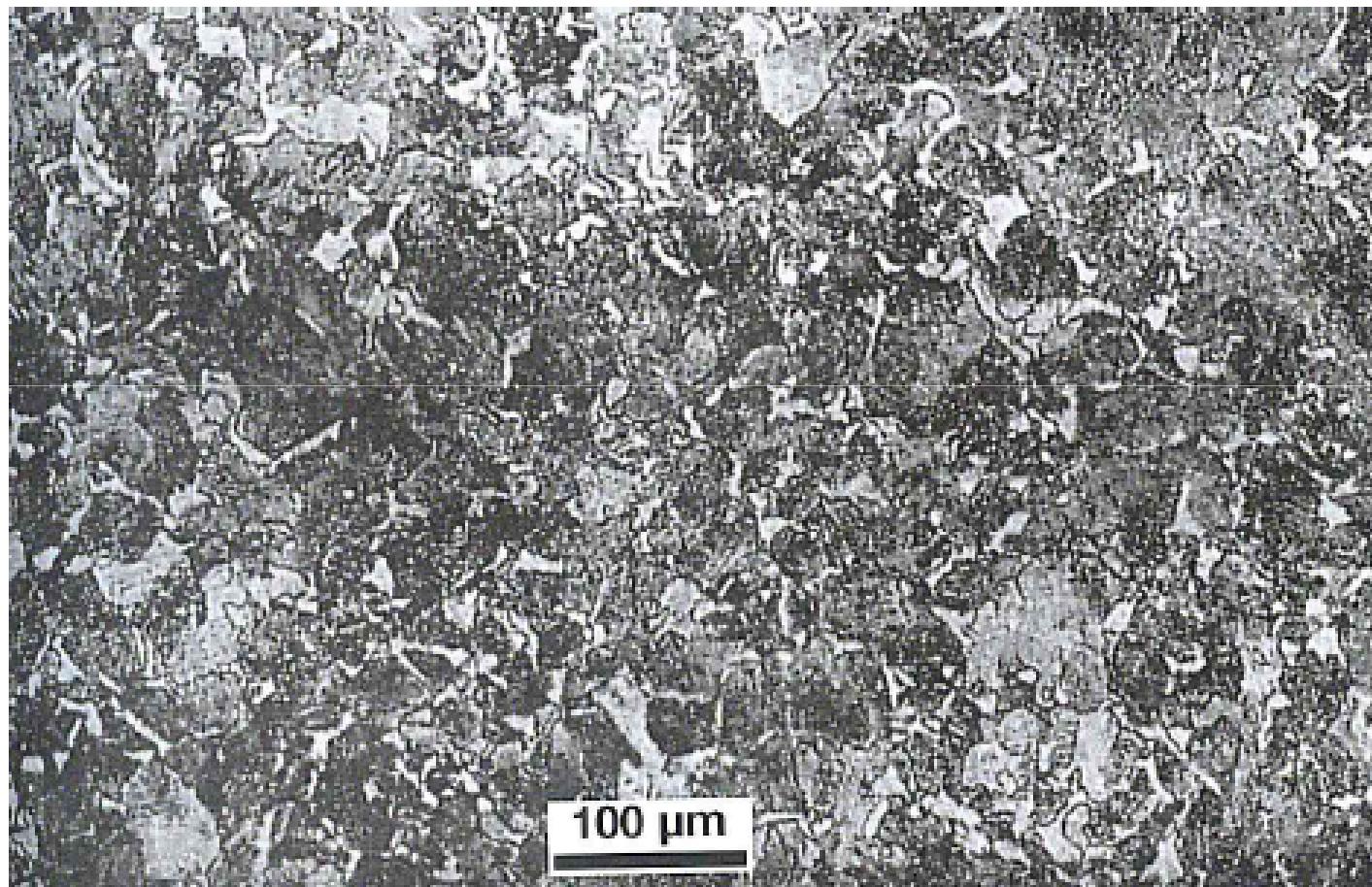
SAE 1030 – ferrita + perlita



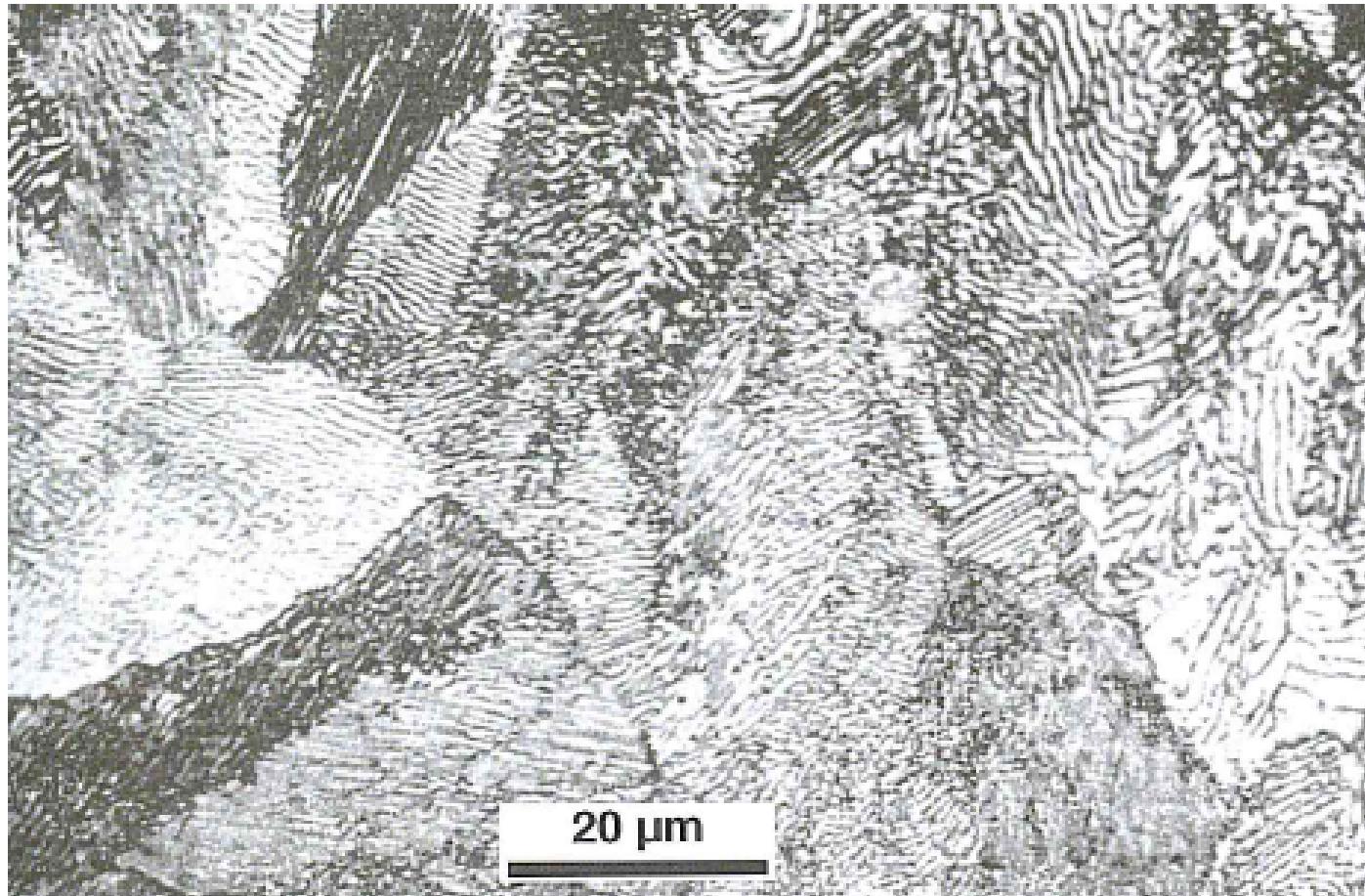
SAE 1050 – ferrita + perlita

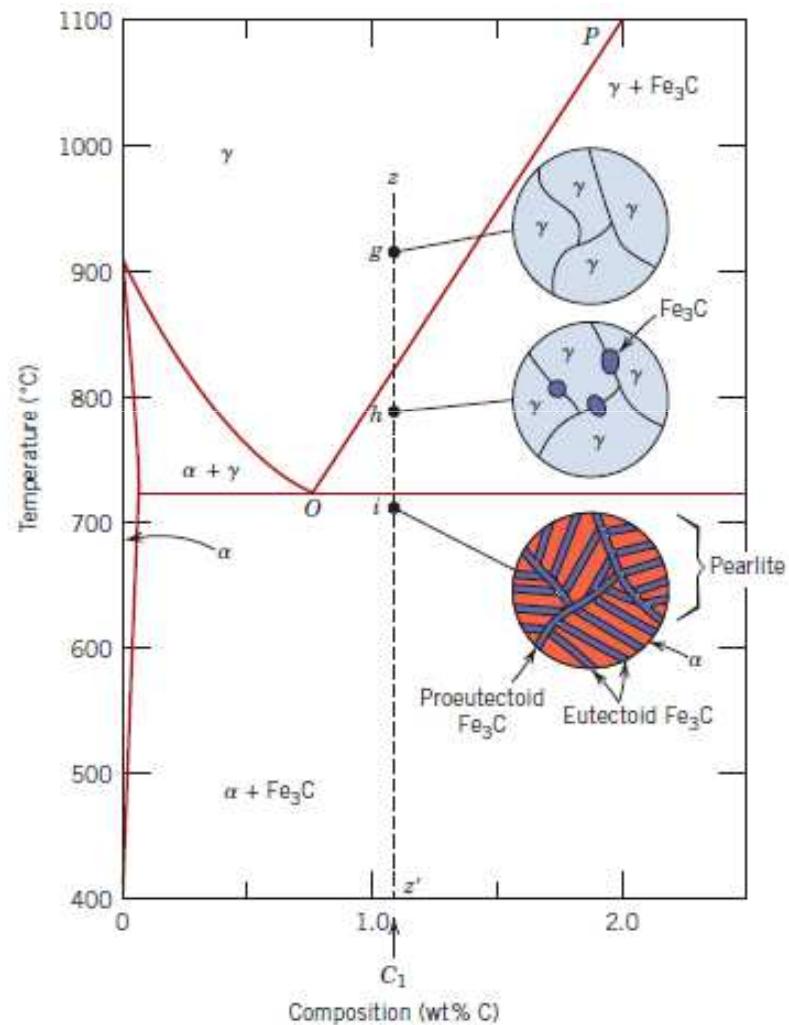


SAE 1070 – ferrita + perlita



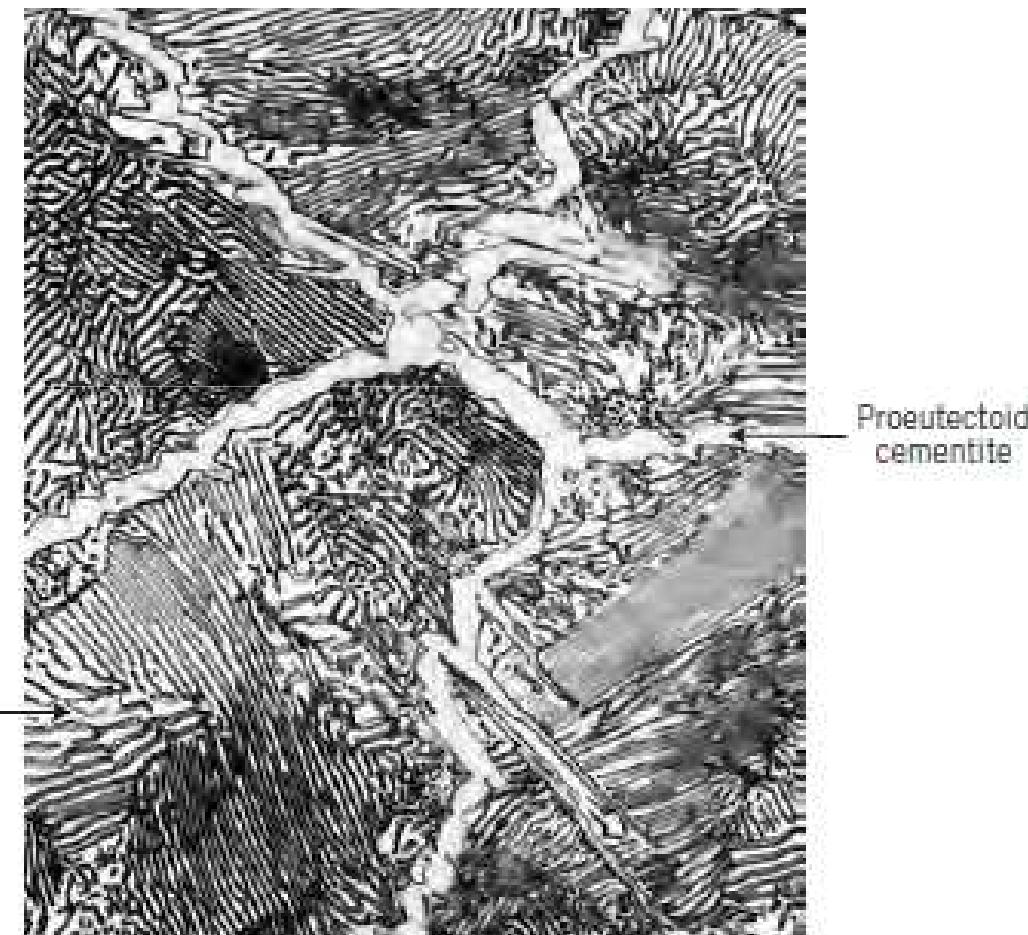
SAE 1076 – perlita





Aço hipereutetóide
%C > 0,76

Fe₃C + perlita



Fe₃C + perlita

