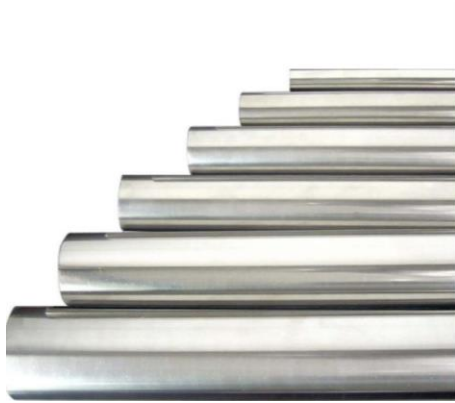
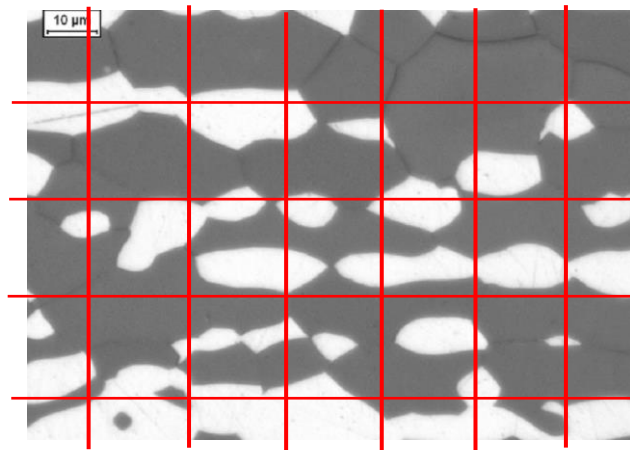


## Estudo de caso #2 – Aço inoxidável 2205 – 22Cr5Ni

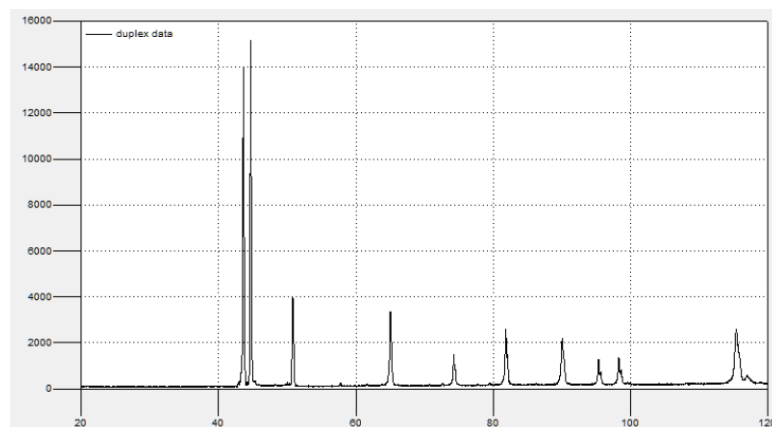
Calcular a porcentagem de fases presentes na microestrutura de um aço inoxidável duplex, supondo que o material apresenta textura aleatória (hipótese pouco realista). Indique a temperatura em que aço foi aquecido para o tratamento térmico de solubilização.



Tubos de aço inoxidável duplex 2205 – UNS S31803



Microestrutura do aço inoxidável duplex – Microscopia óptica – 200X



Difratograma do aço 2205

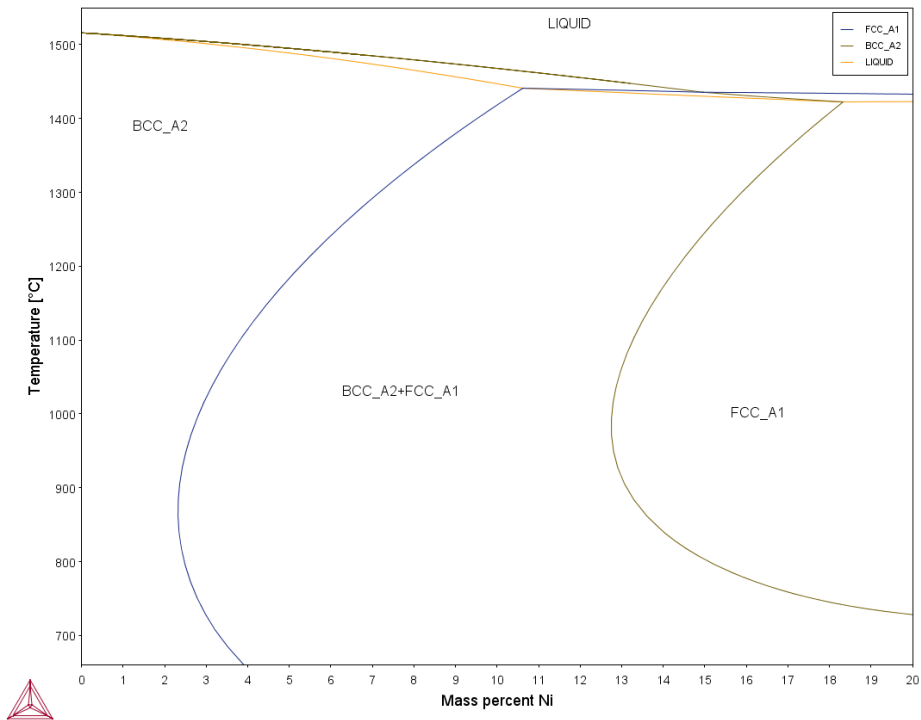
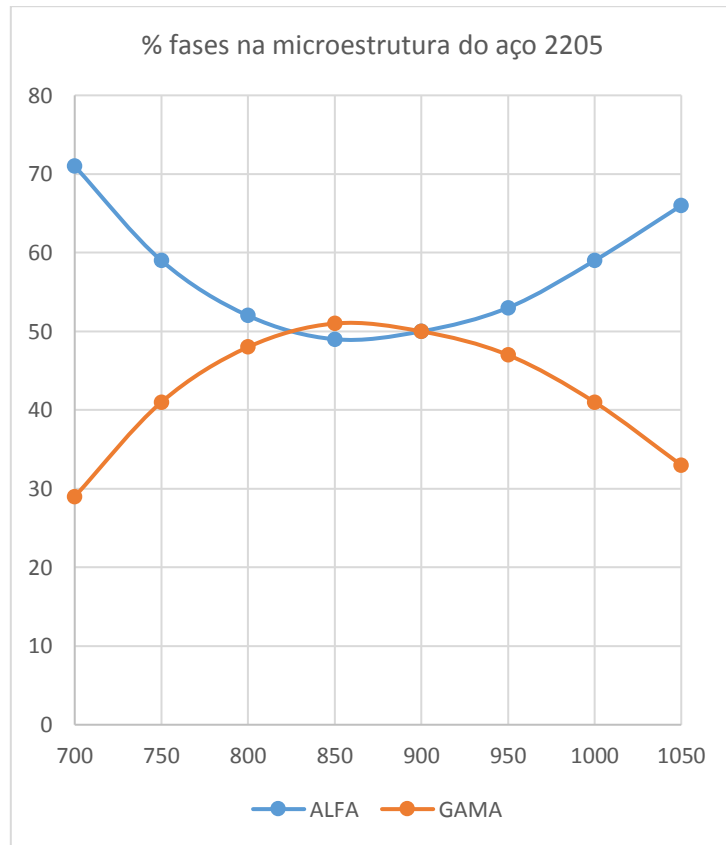


Diagrama de fase pseudo-binário Fe-Cr-Ni





Designation: E975 – 13

**Standard Practice for  
X-Ray Determination of Retained Austenite in Steel with  
Near Random Crystallographic Orientation<sup>1</sup>**

$$\% \gamma = \frac{1,4 * A(\gamma)}{A(\alpha) + 1,4 * A(\gamma)}$$