**8182 Steel**

No. of samples: 5

Heat treatment:

Heat to 1200 °C at a rate of 10 °C s-1, hold at 1200 °C for 5 min, then cool to isothermal transformation temperatures of 340 °C, 310 °C, 280 °C, hold for 5 min, cooling rate 10 °C s-1.

2 samples quenching from 1200 °C at a rate of 50 °C s-1 and 100 °C s-1, respectively, to room temperature.

Please collect dilatometry data and WAX data for the whole heat treatment. Collect WAX data as many as possible for the whole heat treatment including heating to austenitising temperature.

The whole experiment is about 1.5 h.

