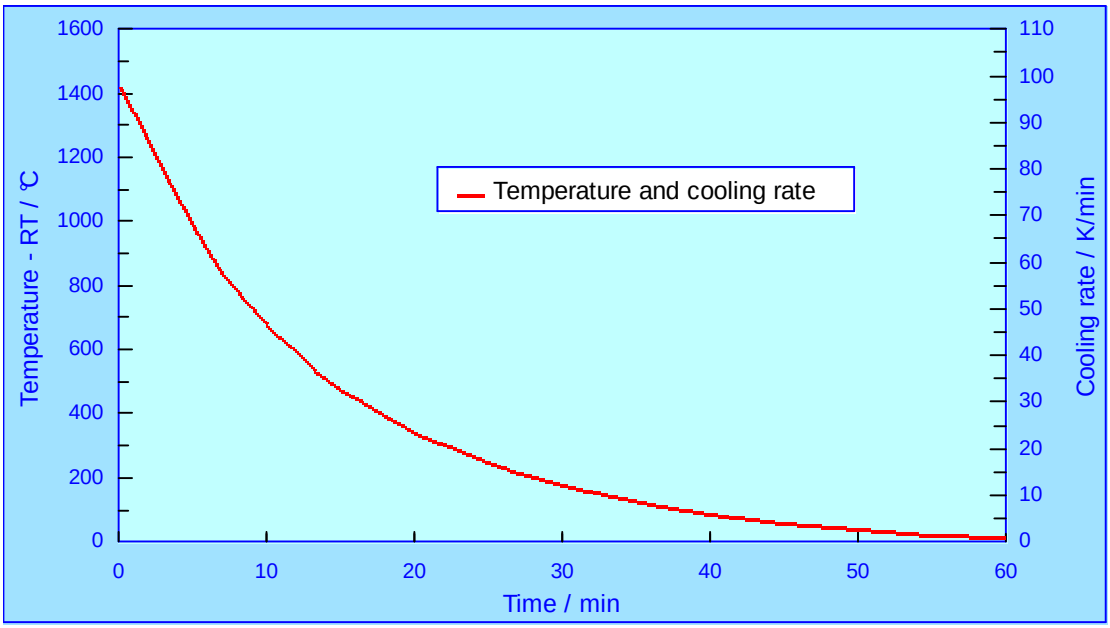
Labsys ™ TGA-DSC

Cooling curve of Labsys ™ TGA-DSC



Experimental

The temperature of the *Labsys*™ TG-DSC is recorded during a cooling of the instrument. At time zero, the set temperature is 1450℃ then, it is suddenly changed to 0℃.

The chart presents the measured temperature subtracted from the room temperature.

Notices: The nature of the carrier gas has practically no influence on the cooling rate. The cooling is the same for *Labsys*™ TG-DTA, *Labsys*™ DSC, *Labsys*™ DTA or *Labsys*™ TG.

Results

The chart presents:

- the variation of temperature versus time

the variation of cooling rate versus time.

Due to the choice of axes, the two curves are presented by the same line.

For instance, during a cooling from 1000℃ down to 220℃, the initial cooling rate will be 69 K.min-1 and the final cooling rate 15 K.min-1.

It will last 27 - 4 = 23 minutes.

Instrument

This « cooling curve » concerns the Labsys ™ TGA-DSC (ambient to 1600℃)