

Thermo-gravimetric Analysis of Micore 160



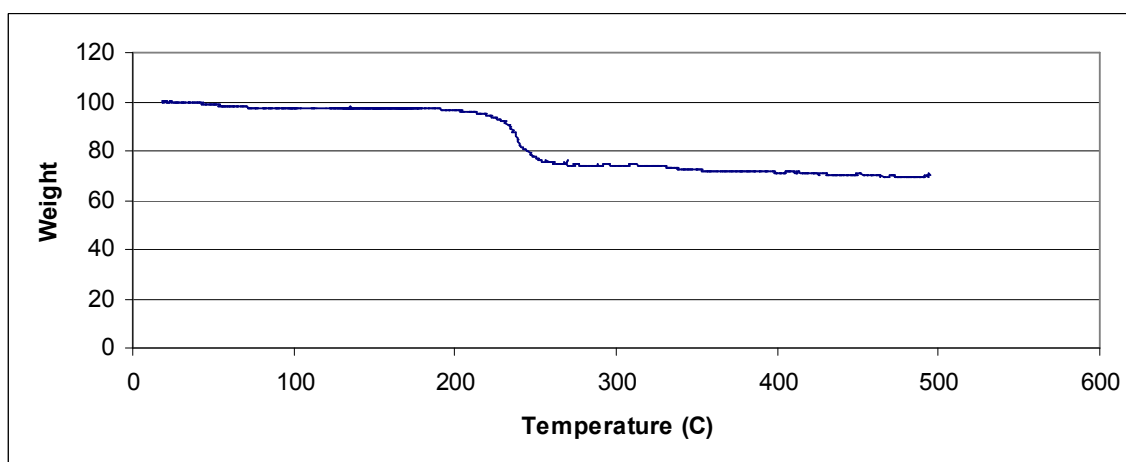
The sample is placed in a micro-furnace with a controlled atmosphere and the temperature is gradually increased. The weight of the sample is monitored and drops as components of the sample are burned off.

Sample: Micore 160, nominally 20mm thick.

Scan: 2 °C/min

Atmosphere: Air

Sample size: 2.3g



Comment: There was a slight weight loss (approx 2.5%) between 40 and 70 °C which is likely to be associated with drying. A substantial weight loss commenced at approximately 190 °C and resulted in the loss of approximately 25% of the weight of the sample between 190 and 270 °C. This appeared to be associated with the loss of binder as the sample had become powdery when cooled after the test. There was a further gradual loss of weight at temperatures above 300 °C indicative of further degradation.

It appears that Micore 160 degrades at temperatures above 190 °C and is unsuitable for use as an insulating board above this temperature.

This bulletin may not be reproduced without the written permission of Applied Research Services Ltd. While we have been careful to ensure the accuracy of the information in this bulletin users must verify the accuracy, completeness and currency of the information before making any decisions based on it. Applied Research Services Ltd shall not be liable in respect of any loss or damage (including consequential loss or damage) resulting from the use of bulletins prepared by them.