Department of Chemical Engineering, AMU Aligarh

Safety Guidelines

HIGH TEMPERATURE FURNACE

1. Wear suitable protective clothing / safety goggles / hand gloves while handling the furnace.

2. Use only those materials whose properties are known.

3. Do not exceed recommended operating temperatures.

4. Do not overload the furnace.

5. Do not use mercury thermometers to monitor the temperature inside the furnace.

6. Do not plug in furnace with an extension cord.

7. In case of unexpected procedures inside the furnace (e.g. strong smoke or odour development), switch the furnace off immediately and wait until it has cooled down by itself. Do not open the door beforehand—there is a risk of fire or explosion.

8. The furnace housing/lid and the door handle/ handle can get very hot during operation. If the furnace is opened at high temperatures (even when a great distance is kept) there is a risk of burns.

9. Make sure the furnace is properly maintained. Report any faults to your Lab In-charge immediately.