## CHEMICAL REACTION WELDING

In thermo-chemical melding process, exothermic reactions takes place which produces the necessary heat for welding, Thermo-chemical welding is of following types.

1) Thermit Welding.

21 Atomic - hydrogen Welding.

## THERMIT WELDING:

In this welding process, exothermic reaction takes place which produces the necessary neat for welding.

BA1+3Fe304->9Fe+4A1203+AH

During this reaction, a very high temb. of the order of 2700°C is developed. The reaction

is non-explosive and requires 30 seconds to complete. Handling and storing of minture is dangerous, since on initial temperature of 1100°C is needed for

with thermit

Thermit collar

Section to be -

ignition. The thermit miniature is kept day, because if it becomes wet or damp it connot be retored to original state.

Applications.

- for repairing fractured rails (railway tracks).

- Welding of broken frames of machines, fractured coankshaft, broken teeth of gears etc.