

Ques 1 → Explain the difference between.

(a) Soldering and Brazing

Soldering

① Soldering is a joining process in which the filler metal melts completely below  $450^{\circ}\text{C}$ .

② Soldering has high strength joints.

③ Have strength to handle high stress.

Brazing

① Brazing is a joining process in which the filler metal melts completely at temperature above  $450^{\circ}\text{C}$ .

② Brazing joints are weak.

③ Have strength less than brazing

(b) MIG and TIG

MIG welding

① MIG welding utilizes a consumable electrode that is continuously fed into the welding zone from a wire pool.

② It is suitable for homogeneous. It cannot be carried out in autogenous mode welding as filler is applied inherently

TIG welding

① TIG welding utilizes a non-consumable electrode

② If required, filler metal is supplied additionally by feeding a small diameter filler rod into the arc.