WELDING DEFECTS

(1) **Gas Porosity :**

Atmospheric gases can be absorbed into the ldg. metal during the solidification process will form porosity.

(2) **SLAG INCLUSIONS :**

Due to improper cleaning of the base metal & slag formed on the liquid metal will be trapped inside the weld bead will forms inclusions.

(3) **WELD SPATTER :**

Due to excessive amount of heat on the w/p liquid metal can be splashed on the base metal will form spatter.

(4) **Lack of fusion & Penetration :**

Due to Lack of heat input, filler metal is not benetrated into base metal properly.

(5) **Weld Cracks :**

Due to non-uniform cooling, internal stresses can be developed in the weld bead. If the stresses will be more than the strength of material, crack will be formed.

To overcome this, provide preheating & postheating.

(6) **WELD DECAY :**

In case of stainless steel material, due to fast rate of cooling, chromium present in the base metal will be converted into chromium carbide. Due to lack of chromium, there is possibility of corrosion, will form weld Decay.