

Cup drawing or deep drawing

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1. Quiz - Key

1. During cup drawing, in which location is necking likely to occur? Why?
Near the punch profile, because the tensile stress is the highest at this location.

2. What is wrinkling? Why does it happen?
Wrinkling is the folding of the sheet metal near the edge on the free edge of the sheet. This happens due to insufficient hold down pressure exerted on the sheet.

3. What are the variables which influence the punch force during deep drawing?
The blank diameter, the die-punch clearance, material properties such as tensile strength, blank holding pressure, blank thickness etc.