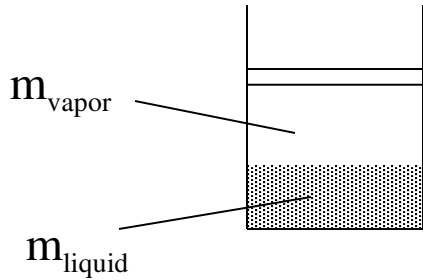


QUALITY (*2 phase condition*)



- Saturated liquid-vapor mixture condition
- x is a thermodynamic property
- x exists only in the liquid-vapor *mixture* region

$$\text{Degree of evaporation} = \text{Dryness fraction} = \text{quality} \equiv \frac{m_{\text{vapor}}}{m_{\text{total}}} = x$$

$$0 \leq x \leq 1$$

(wet)

100% liquid

(dry)

100% vapor