

## Critical speed of a mill

A ball mill critical speed (n) is the rotation speed at which the centrifugal power neutralises the force of gravity.

 $n_{\text{critical}} = \frac{42,3}{\sqrt{D}}$ 

n revolutions per minute (rpm) D internal mill diameter (meter)

A typical mill speed is about 70-80 % of n<sub>critical</sub>.