

Graph between Applied Force and Force of Friction.

(1) Part OA of the curve represents static friction (F_s). Its value increases linearly with the applied force

(2) At point A the static friction is maximum. This represent limiting friction (F_l).

(3) Beyond A , the force of friction is seen to decrease slightly. The portion BC of the curve therefore represents the kinetic friction (F_k).

(4) As the portion BC of the curve is parallel to x -axis therefore kinetic friction does not change with the applied force, it remains constant, and whatever be the applied force.

