Factors Affecting Elasticity.

(1) Hammering and rolling: Crystal grains break up into smaller units by hammering and rolling. This result in increase in the elasticity of material.

(2) Annealing: The metals are annealed by heating and then cooling them slowly. Annealing results in decrease in the elasticity of material.

(3) Temperature: Intermolecular forces decreases with rise in temperature. Hence the elasticity decreases with rise in temperature but the elasticity of invar steel (alloy) does not change with change of temperature.

(4) Impurities: Due to impurities in a material elasticity can increase or decrease. The type of effect depends upon the nature of impurities present in the material.