

1. ELECTRIC CHARGE

1.1 Definition

Charge is the property associated with matter due to which it produces and experiences electrical and magnetic effects.

1.2 Type

There exists two types of charges in nature

- (i) Positive charge
- (ii) Negative charge

Charges with the same electrical sign repel each other, and charges with opposite electrical sign attract each other.



1.3 Unit and dimensional formula

S.I. unit of charge is *coulomb* (C).

($1\text{mC} = 10^{-3}\text{C}$, $1\mu\text{C} = 10^{-6}\text{C}$, $1\text{nC} = 10^{-9}\text{C}$).

C.G.S. unit of charge is *e.s.u.* $1\text{C} = 3 \times 10^9 \text{esu}$

Dimensional formula $[Q] = [AT]$.

1.4 Point Charge

Whose spatial size is negligible as compared to other distances.

1.5 Properties of charge

- (i) **Charge is a Scalar Quantity** : Charges can be added or subtracted algebraically.
- (ii) **Charge is transferable** : If a charged body is put in contact with an uncharged body, uncharged body becomes charged due to transfer of electrons from one body to the other.

- (iii) **Charge is always associated with mass**, i.e., charge can not exist without mass though mass can exist without charge.
- (iv) **Charge is conserved** : Charge can neither be created nor be destroyed.
- (v) **Invariance of charge** : The numerical value of an elementary charge is independent of velocity.
- (vi) **Charge produces electric field and magnetic field** : A charged particle at rest produces only electric field in the space surrounding it. However, if the charged particle is in unaccelerated motion it produces both electric and magnetic fields. And if the motion of charged particle is accelerated it not only produces electric and magnetic fields but also radiates energy in the space surrounding the charge in the form of electromagnetic waves.
- (vii) **Charge resides on the surface of conductor** : Charge resides on the outer surface of a conductor because like charges repel and try to get as far away as possible from one another and stay at the farthest distance from each other which is outer surface of the conductor. This is why a solid and hollow conducting sphere of same outer radius will hold maximum equal charge and a soap bubble expands on charging.
- (viii) **Quantization of charge** : When a physical quantity can have only discrete values rather than any value, the quantity is said to be quantised. The smallest charge that can exist in nature is the charge of an electron. If the charge of an electron ($-1.6 \times 10^{-19}\text{C}$) is taken as elementary unit i.e. quanta of charge the charge on any body will be some integral multiple of e i.e., $Q = \pm ne$ with $n = 0, 1, 2, 3, \dots$
Charge on a body can never be $0.5e$, $\pm 17.2e$ or $\pm 10^{-8}e$ etc.

Cbse 12 Physics Electrostatic Notes

Jianjun Gao



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