

**TABLE 10-1**  
**CHARACTERISTICS OF NUCLEAR RADIATIONS**

Name	Relative Mass	Electric Charge	Emitted by	Range in Air	Tissue Penetration	Radiation stopped by
Alpha	7,300	+2	Unfissioned uranium and plutonium	5 cm	First layer of skin	Clothing Paper
Beta	1	-1	Fission products	12 m	Several layers of skin	Clothing
Gamma	0	0	Fission products	100 m	Total body	Several feet of concrete or earth
Neutron	1,830	0	Emitted only during fission	100 m	Total body	Several feet of concrete or earth

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