|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Particle** | **Symbol** | **Composition** | **Charge** | **Mass** |
| **Alpha** | $$$$α | Helium Nuclei | +2 | 4 amu |
| **Shielding** | **Approx. Energy** | **Penetrating Power** | **Change to Mass #** | **Change to Atomic #** |
| PaperClothing | 5MeV | Low0.05mm body tissue | -4 | -2 |
| **Particle** | **Symbol** | **Composition** | **Charge** | **Mass** |
| **Beta** | e-β | Like an electron | -1 | 1/1837th amubasically 0 |
| **Shielding** | **Approx. Energy** | **Penetrating Power** | **Change to Mass #** | **Change to Atomic #** |
| Aluminum foil | 0.05-1MeV | Moderate4mm body tissue | 0 | +1 |
| **Particle** | **Symbol** | **Composition** | **Charge** | **Mass** |
| **Gamma** | γ | High energy electromagnetic radiation | 0 | 0 |
| **Shielding** | **Approx. Energy** | **Penetrating Power** | **Change to Mass #** | **Change to Atomic #** |
| LeadConcrete | 1MeV | High Penetrates easily | 0 | 0 |
| **Proton** | **Neutron** | **Positron** |
| $$$$ | $$$$ | $$$$ |

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| --- | --- | --- | --- | --- |
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| LeadConcrete | 1MeV | High Penetrates easily | 0 | 0 |
| **Proton** | **Neutron** | **Positron** |
| $$$$ | $$$$ | $$$$ |

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| --- | --- | --- | --- | --- |
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| **Gamma** | γ | High energy electromagnetic radiation | 0 | 0 |
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| LeadConcrete | 1MeV | High Penetrates easily | 0 | 0 |
| **Proton** | **Neutron** | **Positron** |
| $$$$ | $$$$ | $$$$ |

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Particle** | **Symbol** | **Composition** | **Charge** | **Mass** |
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| **Gamma** | γ | High energy electromagnetic radiation | 0 | 0 |
| **Shielding** | **Approx. Energy** | **Penetrating Power** | **Change to Mass #** | **Change to Atomic #** |
| LeadConcrete | 1MeV | High Penetrates easily | 0 | 0 |
| **Proton** | **Neutron** | **Positron** |
| $$$$ | $$$$ | $$$$ |