

Particle	Symbol	Composition	Charge	Mass
<b>Alpha</b>	${}^4_2\text{He}$ $\alpha$	Helium Nuclei	+2	4 amu
<b>Shielding</b>	<b>Approx. Energy</b>	<b>Penetrating Power</b>	<b>Change to Mass #</b>	<b>Change to Atomic #</b>
Paper Clothing	5MeV	Low 0.05mm body tissue	-4	-2
Particle	Symbol	Composition	Charge	Mass
<b>Beta</b>	$e^-$ $\beta$	Like an electron	-1	$1/1837^{\text{th}}$ amu basically 0
<b>Shielding</b>	<b>Approx. Energy</b>	<b>Penetrating Power</b>	<b>Change to Mass #</b>	<b>Change to Atomic #</b>
Aluminum foil	0.05-1MeV	Moderate 4mm body tissue	0	+1
Particle	Symbol	Composition	Charge	Mass
<b>Gamma</b>	$\gamma$	High energy electromagnetic radiation	0	0
<b>Shielding</b>	<b>Approx. Energy</b>	<b>Penetrating Power</b>	<b>Change to Mass #</b>	<b>Change to Atomic #</b>
Lead Concrete	1MeV	High Penetrates easily	0	0
Proton		Neutron	Positron	
${}^1_1p$		${}^1_0n$	${}^0_{+1}e$	

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