ENDF/B-VI CR-53A
Principal cross sections

![Graph showing cross sections vs. energy.](image)
ENDF/B-VI CR-53A
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VI CR-53A
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

- Capture
ENDF/B-VI CR-53A
resonance absorption cross sections

Energy (MeV)

Cross section (barns)
ENDF/B-VI CR-53A
resonance absorption cross sections

capture
ENDF/B-VI CR-53A
Heating

Energy (MeV) vs. Heating (MeV/reaction) graph.
ENDF/B-VI CR-53A
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VI CR-53A
Non-threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n, gma)
ENDF/B-VI CR-53A
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,2n)
- (n,n*)a
- (n,n*)p
- (n,n*c)
- (n,p)
ENDF/B-VI CR-53A
Threshold reactions

Energy (MeV)

Cross section (barns)

- (n,xp)
- (n,xa)
ENDF/B-VI CR-53A
angular distribution for elastic
ENDF/B-VI CR-53A
Neutron emission for (n,2n)
ENDF/B-VI CR-53A
Neutron emission for \((n,n^*)a\)
ENDF/B-VI CR-53A
Neutron emission for \((n,n^*)p\)
ENDF/B-VI CR-53A
Neutron emission for \((n,n^*c)\)
ENDF/B-VI CR-53A
Photon emission for (n,gma)
ENDF/B-VI CR-53A
Photon emission for (n,2n)
ENDF/B-VI CR-53A
Photon emission for (n,n*)a
ENDF/B-VI CR-53A
Photon emission for (n,n*)p
ENDF/B-VI CR-53A
Photon emission for \((n,n^*c)\)
ENDF/B-VI CR-53A
Photon emission for (n,a)
ENDF/B-VI CR-53A
cr-thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VI CR-53A
14 MeV photon spectrum
ENDF/B-VI CR-53A
Particle heating contributions

Energy (MeV)

MeV/collision

protons
alphas

Energy (MeV)
ENDF/B-VI CR-53A
Recoil Heating

![Graph showing recoil heating as a function of energy (MeV) with Heating (MeV/reaction) on the y-axis and Energy (MeV) on the x-axis. The graph shows a trend where heating increases with energy.]
ENDF/B-VI CR-53A
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons

alphas
ENDF/B-VI CR-53A
protons from \((n,n^\ast)p\)
ENDF/B-VI CR-53A
protons from (n,p)
ENDF/B-VI CR-53A
alphas from (n,n*)a
ENDF/B-VI CR-53A
alphas from (n,a)