ENDF/B-VI CR-54H

Principal cross sections

![Cross section graph](image_url)

- **Total**
- **Absorption**
- **Elastic**
- **Gamma Production**

Energy (MeV) vs. Cross section (barns)
ENDF/B-VI CR-54H
resonance total cross section

Energy (MeV) vs Cross section (barns)
ENDF/B-VI CR-54H
resonance total cross section
ENDF/B-VI CR-54H
resonance total cross section

Energy (MeV)

Cross section (barns)

10^0

10^1

10^0

10^1

total
ENDF/B-VI CR-54H
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI CR-54H
resonance absorption cross sections
ENDF/B-VI CR-54H
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture

10^{-3}

10^{0}

10^{1}
ENDF/B-VI CR-54H
Heating

Heating (MeV/reaction)

Energy (MeV)
ENDF/B-VI CR-54H
Heating

Heating (MeV/reaction) vs. Energy (MeV)
ENDF/B-VI CR-54H
Damage

Damage (MeV-barns) vs Energy (MeV)

- Energy (MeV) range: 0 to 160
- Damage (MeV-barns) range: 0 to 4 * 10^{-3}

The graph shows the damage as a function of energy.
ENDF/B-VI CR-54H
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*)

(n,n*1)

(n,n*2)

(n,n*3)

(n,n*4)
ENDF/B-VI CR-54H
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,x)
(n,2n)
(n,n*)
(n,p)
(n,a)
ENDF/B-VI CR-54H
Threshold reactions

Cross section (barns) vs. Energy (MeV)

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xa)
ENDF/B-VI CR-54H
angular distribution for elastic
ENDF/B-VI CR-54H
angular distribution for elastic
ENDF/B-VI CR-54H
Neutron emission for (n,x)
ENDF/B-VI CR-54H
Neutron emission for (n,2n)
ENDF/B-VI CR-54H
Neutron emission for \((n,n^*c)\)
ENDF/B-VI CR-54H
Photon emission for (n,gma)
ENDF/B-VI CR-54H
Photon emission for (n,x)
ENDF/B-VI CR-54H
Photon emission for (n,2n)
ENDF/B-VI CR-54H
Photon emission for (n,n*c)
ENDF/B-VI CR-54H
Photon emission for (n,a)
ENDF/B-VI CR-54H
thermal capture photon spectrum
ENDF/B-VI CR-54H
14 MeV photon spectrum
Recoil Heating

![Graph showing recoil heating as a function of energy (MeV). The x-axis represents energy in MeV, and the y-axis represents heating in MeV/reaction. The graph shows a rising trend indicating increased heating with energy.]
ENDF/B-VI CR-54H
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
deuterons
tritons
alphas
ENDF/B-VI CR-54H
protons from (n,x)
ENDF/B-VI CR-54H
protons from (n,p)
ENDF/B-VI CR-54H
deuterons from (n,x)
ENDF/B-VI CR-54H
tritons from \( (n,x) \)
ENDF/B-VI CR-54H
alphas from (n,x)
ENDF/B-VI CR-54H
alphas from (n,a)