ENDF/B-VI FE-57A
resonance total cross section
ENDF/B-VI FE-57A
cross section

Energy (MeV)

Cross section (barns)

total
ENDF/B-VI FE-57A
resonance total cross section

Cross section (barns) vs. Energy (MeV)
ENDF/B-VI FE-57A
resonance absorption cross sections

Cross section (barns) vs. Energy (MeV)
ENDF/B-VI FE-57A
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI FE-57A
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VI FE-57A
resonance absorption cross sections

Capture cross section as a function of energy.
ENDF/B-VI FE-57A
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VI FE-57A
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
ENDF/B-VI FE-57A
Heating

Heating (MeV/reaction)

Energy (MeV)
ENDF/B-VI FE-57A
Threshold reactions

Cross section (barns)

Energy (MeV)

(n,2n)
(n,n*)a
(n,n*)p
(n,n*c)
(n,p)
ENDF/B-VI FE-57A
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VI FE-57A
angular distribution for elastic
ENDF/B-VI FE-57A
Neutron emission for (n,2n)
ENDF/B-VI FE-57A
Neutron emission for \((n,n^*)a\)
ENDF/B-VI FE-57A
Neutron emission for (n,n*)p
ENDF/B-VI FE-57A
Neutron emission for (n,n*c)
ENDF/B-VI FE-57A
Photons emission for (n,gma)
ENDF/B-VI FE-57A
Photon emission for (n,2n)
ENDF/B-VI FE-57A
Photon emission for \((n,n^*)a\)
ENDF/B-VI FE-57A
Photon emission for (n,n*)\( p \)
ENDF/B-VI FE-57A
Photon emission for (n,n*c)
ENDF/B-VI FE-57A
Photon emission for (n,p)
ENDF/B-VI FE-57A
Photon emission for (n,a)
ENDF/B-VI FE-57A
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VI FE-57A
Particle heating contributions

Energy (MeV)

MeV/collision

protons
alphas
ENDF/B-VI FE-57A
Recoil Heating

Heating (MeV/reaction) vs. Energy (MeV) graph.

- The graph shows the relationship between energy and recoil heating.
- The heating increases significantly with energy.

*10^{-3} notation for heating values.
ENDF/B-VI FE-57A
Particle production cross sections

Cross section (barns)

Energy (MeV)

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Protons

Alphas
ENDF/B-VI FE-57A
protons from (n,n*)p
ENDF/B-VI FE-57A
protons from (n,p)
ENDF/B-VI FE-57A
alphas from (n,n*)a

Probl/MeV

Sec. Energy

10^{-2}

10^{0}

0

10

20

8

10

12

14

16

18

20

Energy (MeV)
ENDF/B-VI FE-57A
alphas from (n,a)