28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Principal cross sections

Energy (MeV)

Cross section (barns)

- total
- absorption
- elastic
- gamma production
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section

Energy (MeV)

Cross section (barns)

total
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section

Energy (MeV) vs. Cross section (barns) for 28-NI-62.

- The graph shows the total cross section as a function of energy.
- The cross section is plotted in barns on a logarithmic scale.
- The energy is plotted on a logarithmic scale.

The data indicates a steady decrease in cross section with increasing energy.
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance absorption cross sections

[Graph showing the energy (MeV) versus cross section (barns) relationship for capture events.]
$^{28}$-Ni-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+ UR total cross section

- Inf. Dil.
- 100 b
- 1 b

Cross section (barns) vs. Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
UR elastic cross section
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
UR capture cross section

Cross section (barns)

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60

Heating

Heating (MeV/reaction)

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Principal cross sections

Cross section (barns)

Energy (MeV)

total
absorption
elastic
gamma production
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
 Heating

![Graph showing the relationship between Heating (MeV/reaction) and Energy (MeV). The heating line starts at the origin and curves upward, indicating an increase in heating as energy increases.]
Damage vs. Energy (MeV) for 28-NI-62 from FENDL-3.2 and ENDF/B-VII. The damage (in MeV-barns) increases rapidly with energy up to around 60 MeV, after which it levels off and then decreases slightly.
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Non-threshold reactions

Cross section (barns)

Energy (MeV)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Inelastic levels

Cross section (barns)

Energy (MeV)

- (n,n*1)
- (n,n*2)
- (n,n*3)
- (n,n*4)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,x) (n,2n) (n,n*)a (n,n*)p (n,n*c)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Threshold reactions

![Graph showing cross sections for different reactions vs. energy.](image-url)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Threshold reactions

![Graph showing cross section (barns) vs. Energy (MeV) for different reactions (n,xp), (n,xd), (n,xt), (n,xa).]
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
angular distribution for elastic
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
angular distribution for elastic
Neutron emission for (n,x)

Prob/MeV

Sec. Energy 50 100 150 0 20 40 60 80 100 120 140 160

Energy (MeV)

28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Neutron emission for (n,2n)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Neutron emission for (n,n*)a
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for (n,gma)
Photon emission for (n,x)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Photon emission for (n,2n)
Photon emission for (n,n*)a
Photon emission for \((n,n^*)p\)
Photon emission for (n,n*c)
Photon emission for (n,p)
Photon emission for (n,a)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
thermal capture photon spectrum
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+ 14 MeV photon spectrum
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Recoil Heating

![Graph showing recoil heating as a function of energy. The x-axis represents energy in MeV, ranging from 0 to 160, and the y-axis represents heating in MeV/reaction, ranging from 0 to 2.5. The graph shows a curve that increases with energy, with several plateaus and sharp changes.](image-url)
Particle production cross sections

Energy (MeV)

Cross section (barns)

- protons
- deuterons
- tritons
- alphas
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
protons from (n,x)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
protons from \((n,n^*)p\)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60 + protons from (n,p)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
deuterons from (n,x)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
tritons from (n,x)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+ alphas from (n,x)
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+ alphas from (n,n*)a
28-NI-62 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+ alphas from (n,a)