28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section

Cross section (barns)

Energy (MeV)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section

![Graph showing the total cross section as a function of energy with logarithmic scales on both axes. The graph is labeled with 'total' and the y-axis is labeled 'Cross section (barns)', while the x-axis is labeled 'Energy (MeV)'.]
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance total cross section
Capture cross sections for 28-NI-61 from ENDF/B-VII. Absorption cross sections were calculated using NJOY2016.60.
Cross section (barns) vs. Energy (MeV) for 28-NI-61 for FENDL-3.2 from ENDF/B-VII by NJOY2016.60, showing resonance absorption cross sections.
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance absorption cross sections

Energy (MeV) vs. Cross section (barns)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
resonance absorption cross sections

Capture cross section vs. energy (MeV)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+

Heating

[Graph showing the relationship between heating (MeV/reaction) and energy (MeV)]
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Damage

Damage (MeV-barns) vs. Energy (MeV)

- Damage scale from $10^{-5}$ to $10^{-1}$
- Energy scale from $10^{-11}$ to $10^1$
Non-threshold reactions
Damage vs Energy (MeV)

- Damage in MeV-barns is plotted on the y-axis.
- Energy in MeV is plotted on the x-axis.

The graph shows a curve that peaks around 20 MeV before decreasing as energy increases.
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Non-threshold reactions

![Graph showing cross section vs. energy for (n,gma) reaction]
Inelastic levels

Cross section (barns)

Energy (MeV)

(n,n*1)  
(n,n*2)  
(n,n*3)  
(n,n*4)  
(n,n*5)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Threshold reactions

Energy (MeV)

Cross section (barns)

(n,x)  
(n,2n)  
(n,$n^*$)p  
(n,n*)c  
(n,p)
Threshold reactions

28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+

Cross section (barns)

Energy (MeV)

(n,a)

(n,2p)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Threshold reactions

![Graph showing cross section vs. energy for different reactions]

- (n,xp)
- (n,xd)
- (n,xt)
- (n,xa)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
angular distribution for elastic
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
angular distribution for elastic
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Neutron emission for (n,x)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Neutron emission for (n,2n)
Neutron emission for \((n,n^*)p\)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Neutron emission for (n,n*c)
Photon emission for (n,x)
Photon emission for (n,2n)
Photon emission for \((n,n^*)p\)
Photon emission for (n,n*c)
Photon emission for (n,p)
Photon emission for (n,a)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
thermal capture photon spectrum
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
14 MeV photon spectrum
Particle heating contributions

Energy (MeV) vs MeV/collision for protons, deuterons, tritons, and alphas.
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
Recoil Heating

![Graph showing recoil heating vs energy (MeV). The graph displays a line representing the heating (MeV/reaction) on the y-axis and energy (MeV) on the x-axis.](image-url)
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons

deuterons

tritons

alphas

Energy (MeV)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
protons from (n,x)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
protons from \( (n,n^*)p \)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+ protons from (n,p)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
deuterons from (n,x)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
tritons from (n,x)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
alphas from (n,x)
28-NI-61 FOR FENDL-3.2 FROM ENDF/B-VII BY NJOY2016.60+
alphas from (n,a)