ENDF/B-VII TI-46
Principal cross sections

Energy (MeV)

Cross section (barns)

Graph showing cross sections for ENDF/B-VII TI-46.

Lines:
- total
- absorption
- elastic
- gamma production
ENDF/B-VII TI-46
resonance total cross section

Cross section (barns)

Energy (MeV)

10^{-3} to 10^{-2}
ENDF/B-VII TI-46
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VII TI-46
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VII TI-46
resonance absorption cross sections

Cross section (barns)

Energy (MeV)
ENDF/B-VII TI-46
Non-threshold reactions

Energy (MeV)

Cross section (barns)

(n,gma)
ENDF/B-VII TI-46
Principal cross sections

![Graph showing cross sections vs. energy (MeV)]

- **Total**
- **Absorption**
- **Elastic**
- **Gamma production**
ENDF/B-VII TI-46
Damage

Damage (MeV-barns)

Energy (MeV)
ENDF/B-VII TI-46
Non-threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII TI-46
Inelastic levels

Cross section (barns)

Energy (MeV)
ENDF/B-VII TI-46
Threshold reactions

Cross section (barns)

Energy (MeV)
ENDF/B-VII TI-46
Threshold reactions

Cross section (barns)

Energy (MeV)
angular distribution for elastic
ENDF/B-VII TI-46
angular distribution for (n,n*1)
ENDF/B-VII T-46

angular distribution for \((n,n^2)\)

\[ \text{Energy (MeV)} \]
\[ \text{Cosine} \]
\[ \text{Prob/Cos} \]
ENDF/B-VII TI-46
angular distribution for (n,n*3)
ENDF/B-VII TI-46
angular distribution for (n,n*4)
ENDF/B-VII Tl-46
angular distribution for (n,n*5)
ENF/B-VII TI-46
angular distribution for (n,n*6)
ENDF/B-VII TI-46
angular distribution for (n,n*7)
ENDF/B-VII TI-46
angular distribution for (n,n*8)
ENDF/B-VII T1-46
angular distribution for (n,n*9)

Energy (MeV)

10 12 14 16 18 20

Cosine

Prob/Cos

1.0 0.5 0.0 -0.5 -1.0
ENDF/B-VII TI-46
Neutron emission for (n,n*)a
ENDF/B-VII Tl-46
Neutron emission for \((n,n^*)p\)
ENDF/B-VII TI-46
Neutron emission for \((n,n^*c)\)
Photon emission for (n,2n)
ENDF/B-VII TI-46
Photon emission for (n,n*)a
Photon emission for (n, n^*) p
ENDF/B-VII TI-46
Photon emission for (n,n*\text{c})
ENDF/B-VII TI-46
Photon emission for (n,gma)
ENDF/B-VII TI-46
Photon emission for (n,p)
ENDF/B-VII TI-46
Photon emission for (n,d)
ENDF/B-VII TI-46
Photon emission for (n,a)

\[ \gamma(E_{\gamma}(\text{MeV})) \]

\[ P_{\gamma}(E_{\gamma}(\text{MeV})) \]
ENDF/B-VII TI-46
thermal capture photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VII TI-46
14 MeV photon spectrum
ENDF/B-VII TI-46
Particle production cross sections

Energy (MeV)

Cross section (barns)

protons
alphas
ENDF/B-VII TI-46
protons from (n,xp)