ENDF/B-VI CU-63B
Principal cross sections

Cross section (barns)

Energy (MeV)

- total
- absorption
- elastic
- gamma production
ENDF/B-VI CU-63B
resonance total cross section

Energy (MeV)

Cross section (barns)

10^{-4} 10^{-3} 10^{-2} 10^{-1} 10^0 10^1 10^2 10^3

total
ENDF/B-VI CU-63B
resonance total cross section

Cross section (barns)

Energy (MeV)
ENDF/B-VI CU-63B
resonance total cross section

Energy (MeV)

Cross section (barns)

total
E\NDF/B-VI CU-63B
resonance total cross section
ENDF/B-VI CU-63B
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI CU-63B
resonance absorption cross sections
ENDF/B-VI CU-63B
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI CU-63B
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture
ENDF/B-VI CU-63B
resonance absorption cross sections

Energy (MeV)

Cross section (barns)

capture

10^{-2}

10^0 10^1
ENDF/B-VI CU-63B
Non-threshold reactions

![Graph showing cross section vs energy for non-threshold reactions](graph.png)
principal cross sections

Energy (MeV)

Cross section (barns)

total
absorption
elastic
gamma production
ENDF/B-VI CU-63B
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*1)
(n,n*2)
(n,n*3)
(n,n*4)
(n,n*5)
ENDF/B-VI CU-63B
Inelastic levels

Energy (MeV)

Cross section (barns)

Energy (MeV)

Cross section (barns)
ENDF/B-VI CU-63B
Inelastic levels

Energy (MeV)

Cross section (barns)

(n,n*21)

(n,n*22)
Threshold reactions

ENDF/B-VI CU-63B

Energy (MeV)

Cross section (barns)

- (n,2n)
- (n,n*)a
- (n,n*)p
- (n,n*c)
- (n,p)
ENDF/B-VI CU-63B
Threshold reactions

Cross section (barns)

Energy (MeV)

*(n,d)*

*(n,he3)*

*(n,a)*
ENDF/B-VI CU-63B
angular distribution for elastic
ENDF/B-VI CU-63B
angular distribution for (n,n*1)
ENDF/B-VI CU-63B
angular distribution for (n,n*2)
ENDF/B-VI CU-63B
angular distribution for \((n,n^3)\)
ENDF/B-VI CU-63B
angular distribution for (n,n*4)
ENDF/B-VI CU-63B
angular distribution for (n,n*15)
ENDF/B-VI CU-63B
Neutron emission for (n,2n)
ENDF/B-VI CU-63B
Neutron emission for \((n,n^*)a\)
 ENDF/B-VI CU-63B
 Neutron emission for $(n,n^*)p$
ENDF/B-VI CU-63B
Photon emission for (n,gma)
ENDF/B-VI CU-63B
Photon emission for (n,2n)
ENDF/B-VI CU-63B
Photon emission for \((n,n^*)a\)
ENDF/B-VI CU-63B
Photon emission for (n,n*)p
ENDF/B-VI CU-63B
Photon emission for (n,n*c)
Photon emission for (n,p)
ENDF/B-VI CU-63B
Photon emission for (n,a)
ENDF/B-VI CU-63B
thermal capture photon spectrum
ENDF/B-VI CU-63B
14 MeV photon spectrum

Gamma Energy (MeV)

Gamma Prod (barns/MeV)
ENDF/B-VI CU-63B
Particle heating contributions

Energy (MeV)

MeV/collision

Energy (MeV)
ENDF/B-VI CU-63B
Recoil Heating

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

- Line: recoil heating
ENDF/B-VI CU-63B
protons from \((n,n^*)p\)
ENDF/B-VI CU-63B
alphas from (n,n*)a
ENDF/B-VI CU-63B alphas from (n,a)