

28-Ni-60 (n, p) 27-Co-60

| | | | | |
|-------------------|---|----------------------|-----------------|--|
| Abundance (%) | = | 26.223 ± 0.008 | | |
| Q | = | -2.04155 MeV | E _{th} | = 2.07591 MeV |
| T _{1/2} | = | 5.2714 y | | |
| E _γ | = | 1173.237 ± 0.004 keV | I _γ | = 99.90 ± 0.02 β ⁻ |
| E _γ | = | 1332.501 ± 0.005 keV | I _γ | = 99.982 ± 0.001 β ⁻ |
| IRDF-90 | | | - eval. | - Oct 1989 N. Larson, C. Perey, D. Hetrick, C. Fu. |
| D-99 (JENDL/D-99) | | | - eval. | - Aug 1996 S. Iwasaki. |
| ENDF/B-VI | | | - eval. | - Oct 1989 N. Larson, C. Perey, D. Hetrick, C. Fu. |
| JENDL-3.2 | | | - eval. | - Mar 1987 S. Iijima. |
| JEF-2 | | | - eval. | - Jun 1991 JEF SCG. |
| BROND-2 | | | - eval. | - May 1985 A. Blokhin, A. Ignatyuk. |

Tabl. 1

| U-235 | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | IRDF-90 | D-99 | ENDF/B-VI | JENDL-3 | JEF-2 | BROND-2 |
| 10% | 5.00 | 5.70 | 5.00 | 5.10 | 5.00 | 5.10 |
| 50% | 6.80 | 7.10 | 6.80 | 6.90 | 6.80 | 6.80 |
| 90% | 9.60 | 9.80 | 9.60 | 9.50 | 9.60 | 9.40 |
| ACS | 1.89E-03 | 1.69E-03 | 1.89E-03 | 2.54E-03 | 1.89E-03 | 2.62E-03 |

Tabl. 2

| Cf-252 | | | | | | |
|------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| | IRDF-90 | D-99 | ENDF/B-VI | JENDL-3 | JEF-2 | BROND-2 |
| 10% | 5.20 | 5.70 | 5.20 | 5.20 | 5.20 | 5.20 |
| 50% | 7.00 | 7.40 | 7.00 | 7.10 | 7.00 | 7.00 |
| 90% | 10.10 | 10.30 | 10.10 | 8.90 | 10.10 | 9.90 |
| ACS | 2.56E-03 | 2.35E-03 | 2.56E-03 | 3.44E-03 | 2.56E-03 | 3.52E-03 |

Tabl. 3

| | | | | | | |
|--------|--------|----|--------------------|--------------------|----------------------|----------|
| 1.4+07 | 1.5+07 | 1 | 1CANCRC | P,EANDC(CAN)-16,1 | 6301 W.G.CROSS, | 11696016 |
| 1.4+07 | 1.5+07 | 5 | 1USAANL | S,ASTM-STP-956,743 | 87 L.R.GREENWOOD | 12977015 |
| 7.7+06 | 1.2+07 | 5 | 1USALAS 2AUSIRK | S,NEANDC-259,165 | 8909 H.VONACH, | 13187003 |
| 5.9+06 | 1.3+07 | 8 | 1USALAS 2AUSIRK | C,91JUELIC,,358 | 9105 M.WAGNER, | 13557002 |
| 5.8+06 | 2.0+07 | 40 | 2ZZZGEL | J,NUK,10,91 | 6707 A.PAULSEN, | 20388002 |
| 8.2+06 | 1.4+07 | 2 | 2ZZZGEL | J,ZP,205,226 | 6708 A.PAULSEN | 20390007 |
| 1.5+07 | 1.5+07 | 1 | 2UK DUR | J,JNE,27,241 | 7304 J.D.HEMINGWAY | 20527005 |
| 1.5+07 | 1.5+07 | 1 | 2GERJUL | J,NP/A,283,269 | 7706 S.M.QAIM, | 20721052 |
| 1.5+07 | 1.5+07 | 1 | 2UK HAR | R,AERE-R-9390 | 7903 E.W.LEES, | 21634005 |
| 1.5+07 | 1.5+07 | 1 | 2GERKIG | R,GKSS-84-E- | 84 B.M.BAHAL, | 21936027 |
| 1.5+07 | 1.5+07 | 1 | 3BANSAV | R,INDC(BAN)-003 | 8609 N.I.MOLLA, | 30825011 |
| 1.4+07 | 1.5+07 | 2 | 3MORRAB | J,NSE,108,289 | 9107 M.VIENNOT, | 30979013 |
| 5.4+06 | 1.2+07 | 9 | 3HUNKOS | C,91JUELIC,,291 | 9105 S.SUDAR, | 30995002 |
| 5.2+06 | 1.0+07 | 10 | 3HUNKOS | C,91JUELIC,,291 | 9105 S.SUDAR, | 30995003 |
| 1.3+07 | 1.7+07 | 4 | 3CPRAEP | J,CNP,16,(3),263 | 94 LU HANLIN, | 31444003 |
| 1.5+07 | 1.5+07 | 1 | 3SUDKHA | R,INDC(SUD)-001 | 9610 K.T.OSMAN, | 31464017 |
| 1.4+07 | 1.5+07 | 6 | 3CPRLNZ | J,PHE,14,923 | 9010 WANG YONGCHANG, | 32577002 |
| 1.4+07 | 1.5+07 | 2 | 3CPRBJG 3CPRAEP | J,PHE,16,(2),151 | 9202 LI TINGYAN, | 32593003 |
| 1.4+07 | 1.4+07 | 1 | 4CCPCCP | R,YK-9,50 | 72 G.N.MASLOV, | 40136010 |
| 1.5+07 | 1.5+07 | 1 | 4CCPKAZ | J,YF,10,(1),44 | 6907 V.N.LEVKOVSKIJ, | 40226013 |
| 1.3+07 | 1.5+07 | 8 | 4RUSRI | R,INDC(CCP)-402 | 9701 A.A.FILATENKOV, | 41240021 |

$^{60}\text{Ni}(n,p)^{60}\text{Co}$ 