

| T | W(BCC_A2,C) | W(BCC_A2,FE) | W(BCC_A2,NB) | W(BCC_A2,V) | W(FCC_A1#1,C) | W(FCC_A1#1,FE) | W(FCC_A1#1,NB) | W(FCC_A1#1,V) | W(FCC_A1#2,C) | W(FCC_A1#2,FE) | W(FCC_A1#2,NB) | W(FCC_A1#2,V) |
|------|-------------|--------------|--------------|--------------|---------------|----------------|----------------|---------------|---------------|----------------|----------------|---------------|
| 1098 | 5.68E-05 | 0.9983172 | 3.98E-06 | 0.001622079 | 0.001495003 | 0.9974786 | 2.94E-06 | 0.00102345 | 0.1659051 | 0.06401037 | 0.01929434 | 0.7507902 |
| 1088 | 4.82E-05 | 0.9983686 | 3.80E-06 | 0.001579351 | 0.001361415 | 0.997666 | 2.76E-06 | 9.70E-04 | 0.1658461 | 0.06406137 | 0.01921935 | 0.7508732 |
| 1078 | 4.08E-05 | 0.998415 | 3.62E-06 | 0.001540609 | 0.001235054 | 0.9978419 | 2.60E-06 | 9.20E-04 | 0.1657838 | 0.06404667 | 0.01915422 | 0.7510153 |
| 1068 | 3.43E-05 | 0.9984567 | 3.46E-06 | 0.001505496 | 0.001116261 | 0.9980064 | 2.46E-06 | 8.75E-04 | 0.1657187 | 0.06397272 | 0.019098 | 0.7512106 |
| 1058 | 2.87E-05 | 0.9984943 | 3.31E-06 | 0.001473676 | 0.001005268 | 0.9981598 | 2.33E-06 | 8.33E-04 | 0.1656511 | 0.0638466 | 0.01904982 | 0.7514524 |
| 1048 | 2.40E-05 | 0.998528 | 3.15E-06 | 0.001444838 | 9.02E-04 | 0.9983022 | 2.21E-06 | 7.93E-04 | 0.1655816 | 0.06367586 | 0.01900887 | 0.7517337 |
| 1038 | 1.99E-05 | 0.9985572 | 2.99E-06 | 0.0014119841 | 8.09E-04 | 0.9984338 | 2.10E-06 | 7.55E-04 | 0.1655142 | 0.0635248 | 0.01897695 | 0.7519841 |
| 1028 | 1.65E-05 | 0.9985834 | 2.82E-06 | 0.001397301 | 7.23E-04 | 0.9985555 | 1.99E-06 | 7.20E-04 | 0.1654467 | 0.06334476 | 0.01895078 | 0.7522578 |
| 1018 | 1.36E-05 | 0.9986077 | 2.67E-06 | 0.001376022 | 6.43E-04 | 0.9986679 | 1.90E-06 | 6.87E-04 | 0.1653764 | 0.06309363 | 0.01892774 | 0.7526023 |
| 1008 | 1.11E-05 | 0.9986305 | 2.53E-06 | 0.001355823 | 5.70E-04 | 0.9987714 | 1.82E-06 | 6.57E-04 | 0.1653033 | 0.06277873 | 0.01890744 | 0.7530106 |
| 998 | 9.08E-06 | 0.998652 | 2.41E-06 | 0.001336535 | 5.02E-04 | 0.9988663 | 1.74E-06 | 6.30E-04 | 0.1652274 | 0.06240694 | 0.01888952 | 0.7534761 |

| T | BPW(BCC_A2) | BPW(DIAMOND_FCC_A4) | BPW(FCC_A1#1) | BPW(FCC_A1#2) |
|------|-------------|---------------------|---------------|---------------|
| 1098 | 0.9882831 | 0 | 0 | 0.01171689 |
| 1088 | 0.9882281 | 0 | 0 | 0.01177195 |
| 1078 | 0.9881792 | 0 | 0 | 0.0118208 |
| 1068 | 0.988136 | 0 | 0 | 0.011864 |
| 1058 | 0.9880979 | 0 | 0 | 0.0119021 |
| 1048 | 0.9880644 | 0 | 0 | 0.01193562 |
| 1038 | 0.9880355 | 0 | 0 | 0.01196454 |
| 1028 | 0.9880102 | 0 | 0 | 0.01198984 |
| 1018 | 0.9879877 | 0 | 0 | 0.01201233 |
| 1008 | 0.9879676 | 0 | 0 | 0.01203235 |
| 998 | 0.9879498 | 0 | 0 | 0.01205024 |

Thermocalc output allowing ferrite, austenite and vanadium carbide to exist, components Fe,C,V,Nb

The alloys composition is Fe-0.2C-1.04V-0.023Nb wt%

Calculations by Dr Shaumik Lenka