# Min wt% FCC = 0:

==========Single objective optimization=========

The minimum objective function value is: -0.9543611531293684

Optimized composition:

Ni = 19.676760428681206wt%

Ti = 6.212640375139298wt%

Al = 0.1662795518724023wt%

wt% Ni3Ti = [25.25145113]

wt% Laves = [2.00586268]

wt% FCC = [0.]

Ni3Ti formation temperature (k) = [949.22]

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# Min wt% FCC = 1:

==========Single objective optimization=========

The minimum objective function value is: -0.9382779546543907

Optimized composition:

Ni = 19.65011647240217wt%

Ti = 4.89672432838056wt%

Al = 0.6354691632782643wt%

wt% Ni3Ti = [23.69958305]

wt% Laves = [0.]

wt% FCC = [2.35977608]

Ni3Ti formation temperature (k) = [892.34]

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# Min wt% FCC = 2: (almost the same result as that in Min FCC = 1)

==========Single objective optimization=========

The minimum objective function value is: -0.9293888469388619

Optimized composition:

Ni = 19.82141412984795wt%

Ti = 5.283203908073679wt%

Al = 0.21089211936556307wt%

wt% Ni3Ti = [23.47505668]

wt% Laves = [0.]

wt% FCC = [2.37691008]

Ni3Ti formation temperature (k) = [944.75121429]

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# Min wt% FCC = 3:

==========Single objective optimization=========

The minimum objective function value is: -0.7416886713014104

Optimized composition:

Ni = 17.47824766860602wt%

Ti = 3.5754319598423896wt%

Al = 0.34274977505276816wt%

wt% Ni3Ti = [18.73401392]

wt% Laves = [0.]

wt% FCC = [3.64041492]

Ni3Ti formation temperature (k) = [900.67]

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# Min wt% FCC = 5:

==========Single objective optimization=========

The minimum objective function value is: -0.7407117220204067

Optimized composition:

Ni = 19.269348709985945wt%

Ti = 4.061879716251132wt%

Al = 2.6819192620928725wt%

wt% Ni3Ti = [18.70933756]

wt% Laves = [0.]

wt% FCC = [6.34723197]

Ni3Ti formation temperature (k) = [843.344]

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# Min wt% FCC = 7:

==========Single objective optimization=========

The minimum objective function value is: -0.7423451366113991

Optimized composition:

Ni = 19.9204039559895wt%

Ti = 3.6514209344938307wt%

Al = 1.5321365252171013wt%

wt% Ni3Ti = [18.75059531]

wt% Laves = [0.]

wt% FCC = [7.77056775]

Ni3Ti formation temperature (k) = [883.7]

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# Min wt% FCC = 9:

==========Single objective optimization=========

The minimum objective function value is: -0.5555325967046123

Optimized composition:

Ni = 17.62604098768718wt%

Ti = 2.901157286825545wt%

Al = 2.616492042706735wt%

wt% Ni3Ti = [14.03197299]

wt% Laves = [0.]

wt% FCC = [10.24274639]

Ni3Ti formation temperature (k) = [910.3]

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