# Min wt% FCC = 0:

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

The minimum objective function value is: -0.9831370367693052

Optimized composition:

Ni = 24.94873387419685wt%

Ti = 7.369869649519137wt%

Al = 0.22677410647324425wt%

wt% Ni3Ti = [31.72193035]

wt% Laves = [0.73062305]

wt% FCC = [0.]

Ni3Ti formation temperature (k) = [1018.4]

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# Min wt% FCC = 1:

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

The minimum objective function value is: -0.8958096591358596

Optimized composition:

Ni = 24.631915856255322wt%

Ti = 5.937458869156022wt%

Al = 1.3232158843948216wt%

wt% Ni3Ti = [28.42654253]

wt% Laves = [0.]

wt% FCC = [4.41150372]

Ni3Ti formation temperature (k) = [959.82]

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# Min wt% FCC = 2: (same result as min wt%FCC = 1)

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

The minimum objective function value is: -0.8900134865264391

Optimized composition:

Ni = 24.889894165928247wt%

Ti = 6.465778141963347wt%

Al = 0.989833872123536wt%

wt% Ni3Ti = [28.24261379]

wt% Laves = [0.]

wt% FCC = [4.41150372]

Ni3Ti formation temperature (k) = [960.83735714]

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# Min wt% FCC = 3: (same result as Min wt%FCC = 1 and 2)

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

The minimum objective function value is: -0.8889589860162983

Optimized composition:

Ni = 24.522683614773932wt%

Ti = 5.881077002494375wt%

Al = 1.2094095500447173wt%

wt% Ni3Ti = [28.20915154]

wt% Laves = [0.]

wt% FCC = [4.37533493]

Ni3Ti formation temperature (k) = [959.16]

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# Min wt% FCC = 4: (same result as min wt%FCC = 1, 2 and 3)

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

The minimum objective function value is: -0.8888996182452032

Optimized composition:

Ni = 24.584218272490055wt%

Ti = 6.189633432956256wt%

Al = 1.1489584762877825wt%

wt% Ni3Ti = [28.20726764]

wt% Laves = [0.]

wt% FCC = [4.35498426]

Ni3Ti formation temperature (k) = [960.02375]

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# Min wt% FCC = 5:

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

The minimum objective function value is: -0.737001924995895

Optimized composition:

Ni = 23.48672400795239wt%

Ti = 4.7497328843140245wt%

Al = 1.7519416584996659wt%

wt% Ni3Ti = [23.38712957]

wt% Laves = [0.]

wt% FCC = [6.87705218]

Ni3Ti formation temperature (k) = [923.803282]

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# Min wt% FCC = 6:

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

The minimum objective function value is: -0.7414194520514295

Optimized composition:

Ni = 24.78031979589545wt%

Ti = 4.62216609183276wt%

Al = 1.2989961933781071wt%

wt% Ni3Ti = [23.52731004]

wt% Laves = [0.]

wt% FCC = [9.61315942]

Ni3Ti formation temperature (k) = [957.07]

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# Min wt% FCC = 7: (same result as min wt%FCC = 6)

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

The minimum objective function value is: -0.7412802270711208

Optimized composition:

Ni = 24.996109654920915wt%

Ti = 4.750444336478821wt%

Al = 1.2796738509713137wt%

wt% Ni3Ti = [23.52289204]

wt% Laves = [0.]

wt% FCC = [9.50488539]

Ni3Ti formation temperature (k) = [956.984]

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# Min wt% FCC = 8: (same result as min wt%FCC = 7 and 6)

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

The minimum objective function value is: -0.7381915346372068

Optimized composition:

Ni = 24.732913027398677wt%

Ti = 4.855514948036875wt%

Al = 1.202222456270778wt%

wt% Ni3Ti = [23.42487921]

wt% Laves = [0.]

wt% FCC = [9.59361537]

Ni3Ti formation temperature (k) = [954.08]

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# Min wt% FCC = 9: (same result as min wt%FCC = 8, 7 and 6)

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

The minimum objective function value is: -0.7384009790636645

Optimized composition:

Ni = 24.552877944549657wt%

Ti = 4.8347376585646wt%

Al = 1.8565997046056393wt%

wt% Ni3Ti = [23.43152546]

wt% Laves = [0.]

wt% FCC = [9.35281519]

Ni3Ti formation temperature (k) = [916.998]

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