**Supplementary Information**

D.B. Miracle and O.N. Senkov, A critical review of high entropy alloys and related concepts, Acta materialia, 2016.

Here we present a data table of complex, concentrated alloys (CCAs) studied and the phases present in them. This data is used to analyze relationships between composition, thermo-mechanical processing conditions and the phases observed in the companion manuscript. This table is intended to provide a representative coverage of the alloys studied through the early part of 2015 that is sufficient to support the current analyses. This table is not a complete list of all alloys and microstructures published to date. Nevertheless, this table contains 408 unique alloy compositions drawn from 112 different alloy systems (defined here as a unique grouping of elements with no consideration of the relative concentrations of those elements).

For simplicity and consistency, the elements in each alloy are ordered alphabetically and the table lists alloys alphabetically from top to bottom. Alloy composition, given in molar ratios, is further used to organize alloys in this table. Within a given alloy system, compositions increase from lower to higher molar ratios, starting from the rightmost element and moving to the leftmost element. For example, compositions in the A-B-C family of alloys follow the sequence:

A0.5B0.5C0.5; A0.5B0.5C; A0.5B0.5C2; A0.5BC0.5; A0.5BC; A0.5BC2; A0.5B2C0.5; A0.5B2C; A0.5B2C2.

This is followed by a similar sequence in the AB0.5C0.5… series of alloys, then by the series for A2B0.5C0.5… . The absence of a subscript is taken as “1”.

Most alloy compositions in the literature are reported as molar ratios that can easily be converted to atomic fractions. Specifically, the atom fractions of elements A, B and C in A*x*B*y*C*z* are *x*/(*x*+*y*+*z*), *y*/(*x*+*y*+*z*) and *z*/(*x*+*y*+*z*), respectively. In some studies, compositions are reported as atom fractions, these are converted to molar ratios in the current table for consistency. Compositions in a series of alloys are sometimes reported as EL*x*(CCA)1-*x*, where EL is an element that is systematically varied and CCA is a combination of elements whose relative compositions remain unchanged. For convenience, these alloy compositions are converted in the table to EL[*x*/(1-*x*)]CCA. As a specific example, Al*x*(CoCrFeMnNi)1-*x* is shown in the table as Al0.25CoCrFeMnNi when *x*=0.2 rather than the more cumbersome Al0.2Co0.8Cr0.8Fe0.8Mn0.8Ni0.8.

Several distinct alloy families (defined here by a palette of particular elements from which alloys belonging to the family may be drawn – an alloy in the family does not have to contain every element in the palette) have been conceived and studied, and these are organized in the table below separately to better illustrate relationships within a given grouping of elements. The alloy families shown in this table include 3d transition metal CCAs; refractory metal CCAs; light metal CCAs; boride/carbide/nitride CCAs; and 4f transition metal CCAs (see the companion manuscript for definitions of these alloy families). Two alloy families (precious metals and brasses/bronzes) are limited in scope or were not published prior to this review and are not included in the table. Some alloys do not fit neatly into any of these families and are listed as “other alloys” in the table. CCAs with as few as 3 elements are included in this category. While CCAs with 3 elements do not satisfy definitions for HEAs, they are nevertheless included in this table. This is supported by findings in the companion paper that the best suite of properties does not always accompany alloys with more elements.

This table is used to analyze the frequencies with which certain alloys, phases or microstructures are reported, and with which different process conditions are used. Thus, a separate row is used for each microstructure report. A microstructure report is defined as a unique set of alloy composition, primary process method and subsequent thermo-mechanical treatments *in a given publication*. Many publications evaluate different alloys and/or different thermo-mechanical processing conditions, and so produce multiple microstructure reports. Identical alloys and thermo-mechanical processing conditions often occur in separate publications, and these are separate microstructure reports following the definition above (different publications) and are shown in separate rows in the table. The reason for this separation is to better assess the variability from one laboratory to another that may result from unreported quantities such as impurity content and cooling rate and from differences in characterization techniques employed. This separation shows that different results are often reported for nominally identical compositions and processes. Reasons for these differences are discussed in the companion manuscript. This table gives 648 alloy-microstructure reports.

The number and types of phases in this table represent a critical assessment of all the data in each published microstructure report. This includes data from X-ray diffraction (XRD), metallographic images (scanning electron microscope (SEM) and/or optical microscope), compositional analyses and/or transmission electron microscopy (TEM). As a result of this assessment, we sometimes come to different conclusions than the published work, and so data in this table do not always match the reported microstructures. Reasons for this disagreement are discussed in the companion paper. For example, some papers consider ordered, intermetallic (IM) compounds to be solid solutions, so that XRD scans showing a superlattice peak are sometimes reported as a solid solution or a disordered phase. In the present assessment, any phase showing a superlattice peak is reported as an ordered IM phase. Further, XRD and metallographic observations sometimes differ in published reports. For example, XRD may show only one crystal structure but metallography may show two or more phases. In this case, we report the number of distinct phases seen metallographically, and assign the observed XRD crystal structure to each. We do not generally list dendrites and inter-dendrite regions as separate phases, since they may represent different compositional regions of the same phase. Clear evidence of distinct interfaces in metallographic images indicate different phases. See the companion paper for more complete discussion of these issues.

The 1st column of the data table shows the alloy system, and the 2nd column lists the specific alloys in each system that have been studied. Alloy systems are listed alphabetically, and specific alloys in each system are organized alphabetically and by composition as described above. Blank cells for alloy system or alloy composition are used to indicate the same entry as the preceding cell.

The 3rd column shows the primary processing condition and subsequent thermo-mechanical treatments. The following abbreviations are used for primary processing conditions**: AC**=As-Cast; **AM**=Additive Manufacturing; **Bridgman**=Bridgman solidification; **CP**=Cold-Pressed; **MA+SPS**=Mechanically Alloyed plus Spark Plasma Sintered; **MS**=Melt-Spun; **SP**=Sputter deposition; **SQ**=Splat Quenched. Abbreviations for subsequent thermo-mechanical processes are: **CR**=Cold Rolled; **FC**=Furnace Cooled; **FOR**=Forged; **HIP**=Hot Isostatic Pressing; **HPT**=High Pressure Torsion; **HR**=Hot Rolled; **VHP**=Vacuum Hot Press; **WQ**=Water Quenched. All temperatures are in degrees Centigrade. Times are abbreviated as hours (h) or minutes (min). Values in parentheses indicate the percent strain from mechanical working, or the melt pool thickness for additive manufacturing. Processes are listed in the order in which they are performed.

The 4th column shows the categories of phases present in the microstructure. The following abbreviations are used: **SS**=Solid Solution; **IM**=Intermetallic; **AM**=Amorphous; **Unk**=Unknown. The microstructure type is listed as Unknown when one of the phases in the microstructure is unknown, and only one other type of phase (SS or IM) is definitely identified. If both SS and IM phases are clearly identified and another phase is unknown, then the microstructure type is listed as SS+IM. A SS microstructure has one or more SS phases and no ordered phases; an IM microstructure has one or more ordered phases and no SS phases; and SS+IM microstructures has at least one SS and at least one IM phase.

The specific crystal structures identified in each microstructure report are listed in the 5th column. Crystal structures are listed in the table primarily by Strukturbericht notation. For convenience, the A1 structure (Pearson symbol cF4, Cu prototype) is listed as **FCC**, the A2 structure (Pearson symbol cI2, W prototype) is listed as **BCC** and the A3 structure (Pearson symbol hP2, Mg prototype) is listed as **HCP**. Additionally, the term **** is used to indicate the D8b crystal structure (Pearson symbol tP30, prototype -CrFe). Other crystal structures reported for CCAs, using the template “Strukturbericht (common name) = Pearson symbol, prototype (reported phase),” are: **A5** = tI4, -Sn (-Sn); **A9** = hP4, graphite (graphite); **A12** = cI58, -Mn (-Mn); **B2** = cP2, ClCs (AlNi); **C14** (hexagonal Laves) = hP12, MgZn2 (Fe2Ti); **C15** (cubic Laves) = cF24, Cu2Mg; **C16** = tI12, Al2Cu (Al2Cu); **D02** = cF16, BiF3 (Li2MgSn); **DO11** = oP16, Fe3C (Ni3Si); **D022** = tI8, Al3Ti (Al3Ti); **D024** = hP16, Ni3Ti; **D2b** = tI26, Mn12Th, (AlFe3Zr); **D85** = hR13, Fe7W6 (Co-Mo, Fe-Mo); **D8m** = tI32, W5Si3 (Mo5Si3); **E93** = cF96, Fe3W3C (Fe-Ti); **L10** = tP2, AuCu; **L12** = cP4, AuCu3; **L21** (Heusler)  = cF16, AlCu2Mn. Strukturbericht notation was not found for **NiTi2** = cF96. Phases determined to display at least one superlattice peak but that are otherwise undetermined are listed as **IM** and phases for which no identification is offered are listed as **Unk** (unknown).

The number of elements in each alloy (6th column) and the number of phases (7th column) are listed to explore relations between these values. Properties measured in the cited papers are indicated in the 8th column. Measured properties are abbreviated by: **C** = Corrosion; **CTE** = Coefficient of Thermal Expansion; **D** = Density; **DSC** = Differential Scanning Calorimetry; **H** = Hardness; **HY** = Hydrogen Adsorption/Desorption; **M** = Mechanical; **MT**= Mechanical (Tensile); **MAG** = Magnetic; **OX** = Oxidation; **R** = Electrical Resistivity; **VIB** = Phonons; **W** = Wear. Finally, the citation for each microstructure report is given.

**Table S1 Complex, concentrated alloys studied through early 2015**

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Alloy System** | **Composition** | **Processing Condition** | **SS or IM** | **Phases** | **# EL** | **# Phases** | **Property** | **References** |
| **3d Transition Metal Alloy Family** | | | | | | | | |
| AgAlCoCrCuNi | AgAlCoCrCuNi | AC | SS+IM | 2FCC+B2 | 6 | 3 | H | [1] |
| AlAuCoCrCuNi | AlAuCoCrCuNi | AC | SS+IM | FCC+L10 | 6 | 2 | H | [1] |
| AlCoCrCuFe | AlCoCrCu0.5Fe | AC | SS+IM | FCC+B2 | 5 | 2 |  | [2] |
|  | AlCoCrCuFe | MA+SPS | SS+IM | FCC+B2+ | 5 | 3 | H | [3] |
| AlCoCrCuFeMnNi | AlCoCrCuFeMnNi | AC | SS+IM | FCC+2B2 | 7 | 3 | M | [4] |
| AlCoCrCuFeMnNiTiV | Al0.125CoCrCuFeMnNiTiV | AC | SS | BCC+FCC | 9 | 2 | M | [5] |
|  | Al0.25CoCrCuFeMnNiTiV | AC | SS | BCC | 9 | 1 | M | [5] |
|  | Al0.67CoCrCuFeMnNiTiV | AC | SS+IM | BCC+D022+IM | 9 | 3 | M | [5] |
| AlCoCrCuFeMoNi | AlCoCrCuFeMo0.2Ni | AC | SS | BCC+FCC | 7 | 2 | M | [6] |
|  | AlCoCrCuFeMo0.4Ni | AC | Unk | BCC+Unk | 7 | 2 | M | [6] |
|  | AlCoCrCuFeMo0.6Ni | AC | Unk | BCC+Unk | 7 | 2 | M | [6] |
|  | AlCoCrCuFeMo0.8Ni | AC | Unk | BCC+Unk | 7 | 2 | M | [6] |
|  | AlCoCrCuFeMoNi | AC | Unk | BCC+Unk | 7 | 2 | M | [6] |
| AlCoCrCuFeNi | Al0.25CoCrCu0.75FeNi | AC | SS | FCC | 6 | 1 | M | [7] |
|  | Al0.3CoCrCu0.5FeNi | AC+1100C/24h/FC | SS+IM | FCC+L12 | 6 | 2 |  | [8] |
|  | Al0.3CoCrCuFeNi | AC | SS | FCC | 6 | 1 | H, M | [9] |
|  |  | AC | SS | FCC | 6 | 1 | H | [10] |
|  | Al0.5CoCrCu0.5FeNi | AC | SS | 2FCC | 6 | 2 |  | [2] |
|  |  | AC | SS | FCC | 6 | 1 | M | [7] |
|  | Al0.5CoCrCu0.5FeNi2 | AC | SS+IM | FCC+L12 | 6 | 2 | H | [11] |
|  | Al0.5CoCrCuFeNi | AC | SS | FCC | 6 | 1 | H, M | [9] |
|  |  | AC | SS | FCC | 6 | 1 | H | [12] |
|  |  | AC | SS | FCC | 6 | 1 | M, W | [13] |
|  |  | AC | SS | 2FCC | 6 | 2 | H, W | [14] |
|  |  | AC | SS | FCC | 6 | 1 | H | [10] |
|  |  | AC | SS | 2FCC | 6 | 2 | H, W | [15] |
|  |  | AC | SS | 2FCC | 6 | 2 | H, W | [16] |
|  |  | AC | SS | FCC | 6 | 1 | H | [17] |
|  |  | AC | SS | FCC | 6 | 1 | H | [18] |
|  |  | AC+FOR(40%) | SS | BCC+2FCC | 6 | 3 | H | [18] |
|  |  | AC+FOR(40%)+1100C/24/WQ | SS+IM | 2FCC | 6 | 2 |  | [18] |
|  |  | AC+FOR(40%)+1100C/24/FC | SS | BCC+2FCC | 6 | 3 | H | [18] |
|  |  | AC+1000C/6h/WQ | SS | 2FCC | 6 | 2 | H, MT | [19] |
|  |  | AC+1000C/6h+CR(80%)+900C/5h | SS | 2FCC | 6 | 2 | H, MT | [19] |
|  |  | AC+1000C/6h+CR(80%)+700C/10h | SS | BCC+2FCC | 6 | 3 | H, MT | [19] |
|  |  | AC+1000C/6h+CR(80%)+600C/10h | SS | BCC+2FCC | 6 | 3 | H, MT | [19] |
|  |  | AC+1000C/6h+CR(80%)+500C/10h | SS | BCC+FCC | 6 | 2 | H, MT | [19] |
|  |  | AC+CR (67%) | SS+IM | BCC+2FCC+B2 | 6 | 4 | H | [20] |
|  |  | AC+CR (67%) +700C/480h | SS+IM | BCC+2FCC+B2+ | 6 | 5 | H | [20] |
|  |  | AC+CR (67%) +900C/480h | SS+IM | BCC+2FCC+B2 | 6 | 4 | H | [20] |
|  |  | AC+CR (67%) +1100C/480h | SS+IM | 2FCC+L12 | 6 | 3 | H | [20] |
|  |  | AC+1000C/6h/WQ+CR (84%) | SS+IM | FCC+L12 | 6 | 2 | M | [21] |
|  |  | AC | SS | 2FCC | 6 | 2 | MT | [22] |
|  |  | AC+600C/24h | SS | BCC+FCC | 6 | 2 | MT | [22] |
|  | Al0.75CoCrCu0.25FeNi | AC | SS | BCC+FCC | 6 | 2 | M | [7] |
|  | Al0.8CoCrCuFeNi | AC | SS | BCC+2FCC | 6 | 3 | M | [23] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | H, M | [9] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | H | [10] |
|  | AlCo0.5CrCu0.5FeNi | AC | IM | B2 | 6 | 1 |  | [2] |
|  | AlCo0.5CrCuFeNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H | [17] |
|  | AlCoCr0.5Cu0.5FeNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 |  | [2] |
|  | AlCoCr0.5CuFeNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H | [17] |
|  | AlCoCrCu0.25FeNi | AC | SS | BCC | 6 | 1 |  | [24] |
|  | AlCoCrCu0.5Fe0.5Ni | AC | SS | BCC+FCC | 6 | 2 |  | [2] |
|  |  | AC | SS+IM | FCC+B2 | 6 | 2 |  | [2] |
|  | AlCoCrCu0.5FeNi | AC | SS+IM | BCC+B2 | 6 | 2 | H | [17] |
|  |  | AC | SS+IM | FCC+B2 | 6 | 2 |  | [2] |
|  | AlCoCrCu0.5FeNi1.5 | AC | SS | BCC+FCC | 6 | 2 |  | [2] |
|  | AlCoCrCu0.5FeNi2 | AC | SS | BCC+FCC | 6 | 2 |  | [2] |
|  | AlCoCrCu0.5FeNi2.5 | AC | SS+IM | BCC+L12 | 6 | 2 |  | [2] |
|  | AlCoCrCu0.5FeNi3 | AC | IM | L12 | 6 | 1 |  | [2] |
|  | AlCoCrCu0.5Fe1.5Ni | AC | SS+IM | FCC+B2 | 6 | 2 |  | [2] |
|  | AlCoCrCu0.5Fe2Ni | AC | SS+IM | FCC+B2 | 6 | 2 |  | [2] |
|  | AlCoCrCuFe0.5Ni | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H | [17] |
|  | AlCoCrCuFeNi0.5 | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H | [17] |
|  | AlCoCrCuFeNi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [9] |
|  |  | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H | [10] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | H, W | [14] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | H | [25] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | H | [1] |
|  |  | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H | [17] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | M | [4] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | M | [4] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+500C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+600C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+645C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+700C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+800C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+900C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC+1000C/5h | SS | BCC+FCC | 6 | 2 | M | [26] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | M | [6] |
|  |  | AC | SS+IM | FCC+B2 | 6 | 2 | H, M, MAG | [27] |
|  |  | AC+1000C/2h | SS+IM | 2FCC+B2 | 6 | 3 | H, M, MAG | [27] |
|  |  | SQ | IM | B2 | 6 | 1 | H | [28] |
|  |  | AC | SS+IM | BCC+2B2+2L12 | 6 | 5 | H | [28] |
|  |  | AC | SS+IM | FCC+B2 | 6 | 2 | MAG, VIB | [29] |
|  |  | AC | SS | BCC+2FCC | 6 | 3 | H, MT | [30] |
|  |  | AC+960C/50h+FOR/950C(1000%) | SS+IM | BCC+2FCC+ | 6 | 4 | H, MT | [30] |
|  |  | AC | SS | BCC+FCC | 6 | 2 | H, M | [31] |
|  | AlCoCr1.5Cu0.5FeNi | AC | SS | BCC+FCC | 6 | 2 |  | [2] |
|  | AlCoCr2Cu0.5FeNi | AC | SS+IM | FCC+B2 | 6 | 2 |  | [2] |
|  | AlCo1.5CrCu0.5FeNi | AC | SS+IM | FCC+B2 | 6 | 2 |  | [2] |
|  | AlCo2CrCu0.5FeNi | AC | SS | BCC+FCC | 6 | 2 |  | [2] |
|  | AlCo3CrCu0.5FeNi | AC | SS | BCC+FCC | 6 | 2 |  | [2] |
|  | AlCo3.5CrCu0.5FeNi | AC | SS | FCC | 6 | 1 |  | [2] |
|  | Al1.3CoCrCuFeNi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [9] |
|  | Al1.4Co0.9Cr1.4Cu0.5Fe0.9Ni | AC | SS+IM | BCC+B2+Unk | 6 | 3 | H | [11] |
|  | Al1.5CoCrCu0.5FeNi | AC | IM | B2 | 6 | 1 |  | [2] |
|  | Al1.5CoCrCuFeNi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [9] |
|  | Al1.8CoCrCuFeNi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [9] |
|  | Al2CoCrCu0.5FeNi | AC | IM | B2 | 6 | 1 |  | [2] |
|  | Al2CoCrCuFeNi | AC | SS+IM | BCC+FCC | 6 | 2 | H, M | [9] |
|  |  | AC | SS+IM | FCC+B2 | 6 | 2 | H, W | [14] |
|  | Al2.3CoCrCuFeNi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [9] |
|  | Al2.5CoCrCuFeNi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [9] |
|  | Al2.8CoCrCuFeNi | AC | IM | B2 | 6 | 1 | H, M | [9] |
|  | Al3CoCrCuFeNi | AC | IM | B2 | 6 | 1 | H, M | [9] |
| AlCoCrCuFeNiSi | AlCoCrCu0.5FeNiSi | AC | SS | AM | 7 | 1 | MT | [32] |
|  | AlCoCrCuFeNiSi | AC | SS | BCC+FCC | 7 | 2 | H | [25] |
| AlCoCrCuFeNiTi | Al0.25CoCrCu0.75FeNiTi0.5 | AC | SS | 2FCC | 7 | 2 | M | [33] |
|  | Al0.5CoCrCu0.5FeNiTi0.5 | AC | SS | 2BCC+FCC | 7 | 3 | M | [33] |
|  | Al0.5CoCrCuFeNiTi0.2 | AC | SS | FCC | 7 | 1 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi0.4 | AC | SS | 2BCC+FCC | 7 | 3 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi0.6 | AC | SS | 2BCC+FCC | 7 | 3 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi0.8 | AC | SS+IM | 2BCC+FCC+ | 7 | 4 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi | AC | SS+IM | 2BCC+FCC+ | 7 | 4 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi1.2 | AC | SS+IM | 2BCC+FCC+NiTi2+ | 7 | 5 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi1.4 | AC | SS+IM | BCC+FCC+B2+NiTi2 | 7 | 4 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi1.6 | AC | SS+IM | BCC+FCC+B2+NiTi2 | 7 | 4 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi1.8 | AC | SS+IM | BCC+FCC+B2+NiTi2 | 7 | 4 | H, W | [15] |
|  | Al0.5CoCrCuFeNiTi2.0 | AC | SS+IM | BCC+FCC+B2+NiTi2 | 7 | 4 | H, W | [15] |
|  | Al0.75CoCrCu0.25FeNiTi0.5 | AC | SS | 2BCC | 7 | 2 | M | [33] |
|  | AlCoCrCu0.25FeNiTi0.5 | AC | SS | 2BCC | 7 | 2 | M | [34] |
|  | AlCoCrCu0.5FeNiTi0.5 | AC | SS | 2BCC | 7 | 2 | M | [34] |
|  | AlCoCrCuFeNiTi | AC | SS+IM | BCC+FCC+B2 | 7 | 3 |  | [4] |
| AlCoCrCuFeNiTiMnV | Al0.125CoCrCuFeNiTiMnV | AC | SS | BCC+FCC | 9 | 2 | M | [5] |
|  | Al0.25CoCrCuFeNiTiMnV | AC | SS | BCC | 9 | 1 | M | [5] |
|  | Al0.67CoCrCuFeNiTiMnV | AC | SS | BCC+D022+Unk | 9 | 3 | M | [5] |
| AlCoCrCuFeNiTiV | AlCoCrCuFeNiTiV | AC | SS | BCC+FCC | 8 | 2 | H | [12] |
|  |  | SQ | SS | BCC | 8 | 1 | H | [12] |
| AlCoCrCuFeNiV | Al0.5CoCrCuFeNiV0.2 | AC | SS | 2FCC | 7 | 2 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV0.4 | AC | SS | BCC+FCC | 7 | 2 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV0.6 | AC | SS+IM | BCC+FCC+ | 7 | 3 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV0.8 | AC | SS+IM | BCC+FCC+ | 7 | 3 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV | AC | SS+IM | BCC+FCC+ | 7 | 3 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV1.2 | AC | SS | BCC+FCC | 7 | 2 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV1.4 | AC | SS | BCC+FCC | 7 | 2 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV1.6 | AC | SS | BCC+FCC | 7 | 2 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV1.8 | AC | SS | BCC+FCC | 7 | 2 | H, W | [16] |
|  | Al0.5CoCrCuFeNiV2 | AC | SS | BCC+FCC | 7 | 2 | H, W | [16] |
|  | AlCoCrCuFeNiV | AC | SS | BCC+FCC | 7 | 2 |  | [4] |
| AlCoCrCuNi | AlCoCrCu0.5Ni | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H | [12] |
|  |  | AC | SS+IM | BCC+FCC+B2 | 5 | 3 |  | [2] |
|  |  | SP | SS | BCC | 5 | 1 | H | [12] |
|  | AlCoCrCuNi | AC | SS | BCC+FCC | 5 | 2 |  | [25] |
|  |  | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H | [1] |
| AlCoCrCuNiTi | AlCoCrCuNiTi | AC | SS | 2BCC+FCC | 6 | 3 | M | [35] |
| AlCoCrCuNiTiY | AlCoCrCuNiTiY0.5 | AC | SS+IM | BCC+FCC+C15+L21 | 7 | 4 | M | [35] |
|  | AlCoCrCuNiTiY0.8 | AC | SS+IM | BCC+C15+L21 | 7 | 3 | M | [35] |
|  | AlCoCrCuNiTiY | AC | SS+IM | BCC+C15+L21+Unk | 7 | 4 | M | [35] |
| AlCoCrFeMnNi | Al0.02CoCrFeMnNi | AC | SS | FCC | 6 | 1 | H, MT | [36] |
|  | Al0.03CoCrFeMnNi | AC | SS | FCC | 6 | 1 | H, MT | [36] |
|  | Al0.04CoCrFeMnNi | AC | SS | FCC | 6 | 1 | H, MT | [36] |
|  | Al0.08CoCrFeMnNi | AC | SS | FCC | 6 | 1 | H, MT | [36] |
|  | Al0.09CoCrFeMnNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H, MT | [36] |
|  | Al0.10CoCrFeMnNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H, MT | [36] |
|  | Al0.11CoCrFeMnNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H, MT | [36] |
|  | Al0.12CoCrFeMnNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H, MT | [36] |
|  | Al0.14CoCrFeMnNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H, MT | [36] |
|  | Al0.15CoCrFeMnNi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 | H, MT | [36] |
|  | Al0.16CoCrFeMnNi | AC | SS+IM | BCC+B2 | 6 | 2 | H, MT | [36] |
|  | Al0.18CoCrFeMnNi | AC | SS+IM | BCC+B2 | 6 | 2 | H, MT | [36] |
|  | Al0.19CoCrFeMnNi | AC | SS+IM | BCC+B2 | 6 | 2 | H, MT | [36] |
|  | Al0.25CoCrFeMnNi | AC | SS+IM | BCC+B2 | 6 | 2 | H, MT | [36] |
| AlCoCrFeMnNiV | Al0.4CoCrFeMnNiV | AC+700C/20h | IM | σ | 7 | 1 | H | [37] |
|  | AlCo0.5Cr0.5Fe0.5MnNiV0.5 | AC+700C/20h | SS | BCC | 7 | 1 | H | [37] |
|  | AlCo0.5Cr0.5Fe0.5MnNiV | AC+700C/20h | SS | BCC | 7 | 1 | H | [37] |
|  | AlCo1.5Cr2Fe1.5Mn2NiV | AC+700C/20h | IM | σ | 7 | 1 | H | [37] |
| AlCoCrFeMoNi | Al0.3CoCrFeMo0.1Ni | AC | SS | FCC | 6 | 1 |  | [38] |
|  |  | AC | SS | FCC | 6 | 1 | H | [39] |
|  |  | AC+700C/144h/WQ | SS+IM | FCC+B2+ | 6 | 3 | H | [39] |
|  | AlCo0.5CrFeMo0.5Ni | AC | SS+IM | BCC+B2+σ | 6 | 3 | H | [40] |
|  | AlCoCr0.5FeMo0.5Ni | AC | IM | B2+σ | 6 | 2 | H | [41] |
|  | AlCoCrFe0.6Mo0.5Ni | AC | IM | B2+σ | 6 | 2 | H, W | [42] |
|  | AlCoCrFeMo0.1Ni | AC | SS | BCC | 6 | 1 | DSC, M | [43] |
|  | AlCoCrFeMo0.2Ni | AC | SS+IM | BCC+IM | 6 | 2 | DSC, M | [43] |
|  | AlCoCrFeMo0.3Ni | AC | SS+IM | BCC+IM | 6 | 2 | DSC, M | [43] |
|  | AlCoCrFeMo0.4Ni | AC | SS+IM | BCC+IM | 6 | 2 | DSC, M | [43] |
|  | AlCoCrFeMo0.5Ni | AC | SS+IM | BCC+IM | 6 | 2 | DSC, M | [43] |
|  |  | AC | SS+IM | BCC+σ | 6 | 2 | H, W | [42] |
|  |  | AC | SS+IM | BCC+σ | 6 | 2 | H | [40] |
|  | AlCoCrFe1.5Mo0.5Ni | AC | SS+IM | BCC+σ | 6 | 2 | H, W | [42] |
|  | AlCoCrFe2Mo0.5Ni | AC | SS+IM | BCC+σ | 6 | 2 | H, W | [42] |
|  | AlCoCr1.5FeMo0.5Ni | AC | IM | B2+σ | 6 | 2 | H | [41] |
|  | AlCoCr2FeMo0.5Ni | AC | IM | B2+σ | 6 | 2 | H | [41] |
|  | AlCo1.5CrFeMo0.5Ni | AC | SS+IM | BCC+B2+σ | 6 | 3 | H | [40] |
|  | AlCo2CrFeMo0.5Ni | AC | SS+IM | BCC+FCC+σ | 6 | 3 | H | [40] |
| AlCoCrFeNbNi | AlCoCrFeNb0.1Ni | AC | SS+IM | BCC+C14 | 6 | 2 | H, M, MAG | [44] |
|  |  | AC | SS | BCC | 6 | 1 | M, MAG | [45] |
|  | AlCoCrFeNb0.25Ni | AC | SS+IM | BCC+C14 | 6 | 2 | H, M, MAG | [44] |
|  |  | AC | SS+IM | BCC+C14 | 6 | 2 | M, MAG | [45] |
|  | AlCoCrFeNb0.5Ni | AC | SS+IM | BCC+C14 | 6 | 2 | H, M, MAG | [44] |
|  |  | AC | SS+IM | BCC+C14 | 6 | 2 | M, MAG | [45] |
|  | AlCoCrFeNb0.75Ni | AC | SS+IM | BCC+C14 | 6 | 2 | H, M, MAG | [44] |
|  |  | AC | SS+IM | BCC+C14 | 6 | 2 | M, MAG | [45] |
| AlCoCrFeNi | Al0.1CoCrFeNi | AC | SS | FCC | 5 | 1 | H | [46] |
|  | Al0.25CoCrFeNi | AC | SS | FCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | FCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ+CR(50%) | SS | FCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | FCC | 5 | 1 | CTE, D, R | [48] |
|  | Al0.3CoCrFeNi | AC | SS+IM | FCC+L12 | 5 | 2 | MT | [49] |
|  |  | AC+700C/72h/WQ | SS+IM | FCC+L12 | 5 | 2 | MT | [49] |
|  |  | AC+900C/72h/WQ | SS+IM | FCC+B2 | 5 | 2 | MT | [49] |
|  |  | AC | SS+IM | FCC+L12 | 5 | 2 |  | [38] |
|  |  | AC | SS | FCC | 5 | 1 | H | [39] |
|  |  | AC+700C/144h/WQ | SS+IM | FCC+B2 | 5 | 2 | H | [39] |
|  |  | AC | SS | FCC | 5 | 1 | H | [46] |
|  |  | AC+700C/20h | SS | FCC | 5 | 1 | H | [37] |
|  | Al0.3CoCr2FeNi | AC+700C/20h | SS+IM | BCC+FCC+σ | 5 | 3 | H | [37] |
|  | Al0.375CoCrFeNi | AC | SS | FCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | FCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ+CR(50%) | SS | FCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | FCC | 5 | 1 | CTE, D, R | [48] |
|  | Al0.4CoCrFeNi | AC | SS | FCC | 5 | 1 | H | [46] |
|  | Al0.44CoCrFeNi | AC | SS+IM | FCC+B2+Unk | 5 | 3 | OX | [50] |
|  | Al0.5CoCrFeNi | AC | SS | 2FCC | 5 | 2 |  | [24] |
|  |  | AC | SS | BCC+FCC | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | BCC+FCC | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ+CR(50%) | SS | BCC+FCC | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | BCC+FCC | 5 | 2 | CTE, D, R | [48] |
|  |  | AC | SS | BCC+FCC | 5 | 2 | H, C | [51] |
|  |  | AC+350C/24h/WQ | SS | 2BCC+FCC | 5 | 3 | H, C | [51] |
|  |  | AC+500C/24h/WQ | SS | 2BCC+FCC | 5 | 3 | H, C | [51] |
|  |  | AC+650C/24h/WQ | SS | 2BCC+FCC | 5 | 3 | H, C | [51] |
|  |  | AC+800C/24h/WQ | SS | 2BCC+FCC | 5 | 3 | H, C | [51] |
|  |  | AC+950C/24h/WQ | SS | 2BCC+FCC | 5 | 3 | H, C | [51] |
|  |  | AC | SS | BCC+FCC | 5 | 2 | H | [46] |
|  | Al0.7CoCrFeNi | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H | [46] |
|  | Al0.75CoCrFeNi | AC+1100C/24h/WQ | SS+IM | FCC+B2 | 5 | 2 | CTE, D, R | [48] |
|  |  | AC | SS | BCC+FCC | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | BCC+FCC | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ+CR(50%) | SS | BCC+FCC | 5 | 2 | H | [47] |
|  | Al0.8CoCrFeNi | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H | [46] |
|  | Al0.875CoCrFeNi | AC | SS | BCC | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS+IM | FCC+B2 | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ+CR(50%) | SS+IM | FCC+B2 | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | BCC+FCC | 5 | 2 | CTE, D, R | [48] |
|  | Al0.9CoCrFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [46] |
|  | AlCoCrFeNi | AC | IM | B2 | 5 | 1 | M | [52] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | M | [53] |
|  |  | AC | IM | B2+L12 | 5 | 2 |  | [54] |
|  |  | AC | IM | B2 | 5 | 1 | M | [7] |
|  |  | AC | IM | B2 | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS+IM | FCC+B2 | 5 | 2 | H | [47] |
|  |  | AC | SS | BCC | 5 | 1 | M | [55] |
|  |  | AC+1100C/24h/WQ | SS+IM | FCC+B2 | 5 | 2 | CTE, D, R | [48] |
|  |  | AC | SS | BCC | 5 | 1 | DSC, M | [43] |
|  |  | AC | SS+IM | FCC+B2 | 5 | 2 | H,D | [56] |
|  |  | AC | SS | BCC | 5 | 1 | M | [57] |
|  |  | AC | SS | BCC | 5 | 1 | M | [58] |
|  |  | AC | SS | BCC | 5 | 1 | H, M, MAG | [44] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | M | [59] |
|  |  | AC+Bridgman | SS+IM | BCC+B2 | 5 | 2 | M | [59] |
|  |  | AC | SS | BCC | 5 | 1 | M, MAG | [45] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | H, M, MAG | [44] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | H | [46] |
|  | AlCoCrFeNi2.1 | AC | SS+IM | FCC+B2 | 5 | 2 | DSC, MT | [60] |
|  | AlCoCr2FeNi | AC | IM | B2+L12 | 5 | 2 |  | [54] |
|  | Al1.2CoCrFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [46] |
|  | Al1.25CoCrFeNi | AC+1100C/24h/WQ | IM | B2 | 5 | 1 | CTE, D, R | [48] |
|  |  | AC | IM | B2 | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS+IM | BCC+B2 | 5 | 2 | H | [47] |
|  | Al1.5CoCrFeNi | AC | IM | B2 | 5 | 1 |  | [54] |
|  |  | AC+1100C/24h/WQ | IM | B2 | 5 | 1 | CTE, D, R | [48] |
|  |  | AC | IM | B2 | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS+IM | BCC+B2 | 5 | 2 | H | [47] |
|  |  | AC | IM | B2 | 5 | 1 | H, D | [56] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | H | [46] |
|  | Al1.8CoCrFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [46] |
|  | Al2CoCrFeNi | AC | IM | B2 | 5 | 1 |  | [54] |
|  |  | AC | IM | B2 | 5 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS+IM | BCC+B2 | 5 | 2 | H | [47] |
|  |  | AC+1100C/24h/WQ | IM | B2 | 5 | 1 | CTE, D, R | [48] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | H,D | [56] |
|  |  | AC | IM | B2 | 5 | 1 | MAG, VIB | [29] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | H | [46] |
|  | Al2.08CoCrFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | R | [61] |
|  | Al2.5CoCrFeNi | AC | IM | B2 | 5 | 1 |  | [54] |
|  |  | AC | SS+IM | BCC+B2 | 5 | 2 | H, D | [56] |
|  | Al3CoCrFeNi | AC | IM | B2 | 5 | 1 |  | [54] |
|  |  | AC | IM | B2 | 5 | 1 | H, D | [56] |
| AlCoCrFeNiSi | AlCoCrFeNiSi0.2 | AC | SS | BCC | 6 | 1 | M | [57] |
|  | AlCoCrFeNiSi0.4 | AC | SS | 2BCC | 6 | 2 | M | [57] |
|  | AlCoCrFeNiSi0.6 | AC | SS+IM | 2BCC+IM | 6 | 3 | M | [57] |
|  | AlCoCrFeNiSi0.8 | AC | SS+IM | 2BCC+IM | 6 | 3 | M | [57] |
|  | AlCoCrFeNiSi | AC | SS+IM | 2BCC+IM | 6 | 3 | M | [57] |
| AlCoCrFeNiTi | Al0.2Co1.5CrFeNi1.5Ti0.5 | AC+1100C/4h/AC+800C/10h/AC | SS | FCC | 6 | 1 | H, W | [62] |
|  | Al0.2Co1.5CrFeNi1.5Ti | AC+1100C/4h/AC+800C/10h/AC | SS+IM | FCC+D024 | 6 | 2 | H, W | [62] |
|  | Al0.3CoCrFeNiTi0.1 | AC | SS | FCC | 6 | 1 | H | [39] |
|  |  | AC+700C/144h/WQ | SS+IM | FCC+B2 | 6 | 2 | H | [39] |
|  | Al0.5CoCrFeNiTi | AC | SS+IM | BCC+B2+C14 | 6 | 3 | M | [63] |
|  |  | AC | SS+IM | BCC+FCC+B2+C14+E93 | 6 | 5 |  | [64] |
|  |  | AC+1000C/2h | SS+IM | BCC+FCC+B2+C14+E93+Unk | 6 | 6 |  | [64] |
|  | Al0.6CoCrFeNiTi0.4 | MA+SPS | SS | 2FCC+D022 | 6 | 3 | DSC, H, M | [65] |
|  | AlCoCrFeNiTi0.5 | AC | SS+IM | 2BCC+B2 | 6 | 2 | M | [52] |
|  |  | AC | SS | 2BCC | 6 | 2 | M | [34] |
|  |  | AC | SS+IM | BCC+B2 | 6 | 2 | M | [66] |
|  | AlCoCrFeNiTi | AC | SS+IM | 2BCC+B2 | 6 | 2 | M | [52] |
|  |  | AC | SS+IM | BCC+B2+C14 | 6 | 3 | M | [63] |
|  |  | AC | SS+IM | BCC+FCC+B2+C14+E93 | 6 | 5 |  | [64] |
|  |  | AC+1000C/2h | SS+IM | BCC+FCC+B2+C14+E93+Unk | 6 | 6 |  | [64] |
|  | AlCoCrFeNiTi1.5 | AC | SS+IM | BCC+B2+C14 | 6 | 3 | M | [52] |
|  | AlCo1.5CrFeNiTi0.5 | AC | SS | BCC+FCC | 6 | 2 | M | [66] |
|  | AlCo2CrFeNiTi0.5 | AC | SS | BCC+FCC | 6 | 2 | M | [66] |
|  | AlCo3CrFeNiTi0.5 | AC | SS | BCC+FCC | 6 | 2 | M | [66] |
|  | Al1.5CoCrFeNiTi | AC | SS+IM | BCC+B2 | 6 | 2 | M | [63] |
|  |  | AC | SS+IM | BCC+B2 | 6 | 2 |  | [64] |
|  |  | AC+1000C/2h | SS+IM | BCC+B2 | 6 | 2 |  | [64] |
|  | Al2CoCrFeNiTi | AC | SS+IM | BCC+B2 | 6 | 2 | M | [63] |
|  |  | AC | SS+IM | BCC+B2 | 6 | 2 |  | [64] |
|  |  | AC+1000C/2h | SS+IM | BCC+B2 | 6 | 2 |  | [64] |
| AlCoCrNiSi | Al0.43CoCr0.29NiSi0.14 | AC | SS+IM | FCC+L10+L12 | 5 | 3 | OX | [50] |
|  | Al0.8CoCrNiSi0.2 | AC | SS+IM | BCC+B2+σ | 5 | 3 | OX | [50] |
| AlCoCuFeNdNi | AlCoCuFeNdNi | AC | IM | Unk | 6 | 3 |  | [31] |
| AlCoCuFeNi | AlCo0.2CuFeNi | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [67] |
|  | AlCo0.5CuFeNi | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [67] |
|  | AlCoCu0.5FeNi | AC | SS | BCC+FCC | 5 | 2 |  | [2] |
|  | AlCoCuFeNi | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [67] |
|  |  | AC | SS | BCC+FCC | 5 | 2 | H, M | [31] |
|  | AlCo1.5CuFeNi | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [67] |
|  | AlCo2CuFeNi | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [67] |
|  | AlCo3CuFeNi | AC | SS | FCC | 5 | 1 | H, M | [67] |
| AlCoCuFeNiSi | AlCoCuFeNiSi | AC | SS | BCC+FCC | 6 | 2 |  | [31] |
| AlCoCuFeNiTi | AlCoCuFeNiTi | AC | SS+IM | BCC+FCC+B2 | 6 | 3 |  | [31] |
|  |  | AC | SS | BCC+FCC | 6 | 2 |  | [68] |
| AlCoCuFeNiZr | AlCoCuFeNiZr | AC | SS+IM | FCC+B2+D2b | 6 | 3 |  | [31] |
| AlCoCuNi | AlCoCuNi | AC | SS | BCC+FCC | 4 | 2 |  | [25] |
| AlCoCuNiTiZn | AlCoCuNiTiZn | MA+VHP | SS | BCC+2FCC | 6 | 3 | H | [69] |
| AlCoFeMoNi | AlCoFeMo0.5Ni | AC | IM | B2+σ | 5 | 2 | H | [41] |
| AlCoFeNi | Al0.25CoFeNi | AC | SS | FCC | 4 | 1 | H, M, MAG, R | [70] |
|  | Al0.5CoFeNi | AC | SS+IM | FCC+B2 | 4 | 2 | H, M, MAG, R | [70] |
|  | Al0.75CoFeNi | AC | SS+IM | FCC+B2 | 4 | 2 | H, M, MAG, R | [70] |
|  | AlCoFeNi | AC | IM | B2 | 4 | 1 | H, M, MAG, R | [70] |
| AlCoFeNiTi | Al0.6CoFeNiTi0.4 | SPS | SS+IM | FCC+B2+Unk | 5 | 3 | H, M | [71] |
|  | AlCoFeNiTi | AC | SS | BCC | 5 | 1 |  | [68] |
| AlCrCuFeMnNi | Al0.3CrCuFeMnNi | AC | SS | BCC+2FCC | 6 | 3 | H | [10] |
|  | Al0.5CrCuFeMnNi | AC | SS | 2BCC+FCC | 6 | 3 | H | [10] |
|  | Al0.8CrCuFeMnNi | AC | SS | 2BCC+FCC | 6 | 3 | H | [10] |
|  | Al0.8CrCuFeMn1.5Ni | AC | SS | 2BCC | 6 | 2 | H | [10] |
|  | Al0.8CrCuFe1.5MnNi | AC | SS | 2BCC+FCC | 6 | 3 | H | [10] |
|  | Al0.8CrCu1.5FeMnNi | AC | SS | BCC+FCC | 6 | 2 | H | [10] |
|  | AlCrCuFeMnNi | AC | SS | 2BCC | 6 | 2 | H | [10] |
| AlCrCuFeNi | Al0.2CrCuFeNi | AC | SS | FCC | 5 | 1 | H | [72] |
|  | Al0.2CrCuFeNi2 | AC | SS | FCC | 5 | 1 |  | [73] |
|  | Al0.4CrCuFeNi | AC | SS | FCC | 5 | 1 | H | [72] |
|  | Al0.4CrCuFeNi2 | AC | SS | FCC | 5 | 1 |  | [73] |
|  | Al0.5CrCuFeNi | AC | SS | FCC | 5 | 1 | H | [72] |
|  | Al0.6CrCuFeNi2 | AC | SS | FCC | 5 | 1 |  | [73] |
|  | Al0.7CrCuFeNi | AC | SS | FCC | 5 | 1 | H | [72] |
|  | Al0.8CrCuFeNi | AC | SS | BCC+FCC | 5 | 2 | H | [72] |
|  | Al0.8CrCuFeNi2 | AC | SS | FCC | 5 | 1 |  | [73] |
|  | Al0.9CrCuFeNi | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H | [72] |
|  | AlCrCu0.5FeNi | AC | SS+IM | BCC+B2 | 5 | 2 |  | [2] |
|  | AlCrCuFeNi0.6 | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [74] |
|  | AlCrCuFeNi0.8 | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [74] |
|  | AlCrCuFeNi | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [74] |
|  | AlCrCuFeNi1.2 | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [74] |
|  | AlCrCuFeNi1.4 | AC | SS+IM | FCC+B2 | 5 | 2 | H, M | [74] |
|  | AlCrCuFeNi2 | AC | SS | BCC+FCC | 5 | 2 |  | [73] |
|  | Al1.2CrCuFeNi | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H | [72] |
|  | Al1.2CrCuFeNi2 | AC | SS | BCC+FCC | 5 | 2 |  | [73] |
|  | Al1.5CrCuFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [72] |
|  | Al1.8CrCuFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [72] |
|  | Al2.0CrCuFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [72] |
|  | Al2.2CrCuFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [72] |
|  | Al2.5CrCuFeNi | AC | SS+IM | BCC+B2 | 5 | 2 | H | [72] |
| AlCrCuFeNiTi | AlCr0.5CuFeNiTi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [75] |
|  | AlCrCuFeNiTi | AC | SS+IM | FCC+B2 | 6 | 2 | H, M | [75] |
|  |  | AC | SS+IM | 2BCC+C14 | 6 | 3 | H, M, DSC | [76] |
|  |  | AC+500/4h/FC | SS+IM | 2BCC+C14 | 6 | 3 | H, M, DSC | [76] |
|  | AlCr1.5CuFeNiTi | AC | SS+IM | FCC+B2 | 6 | 2 | H,M | [75] |
|  | AlCr2CuFeNiTi | AC | SS+IM | FCC+B2 | 6 | 2 | H,M | [75] |
|  | AlCr3CuFeNiTi | AC | SS+IM | FCC+B2 | 6 | 2 | H,M | [75] |
| AlCrFeMnNi | Al0.3CrFe1.5MnNi0.5 | AC | SS | BCC+FCC | 5 | 2 | C | [77] |
|  |  | AC | SS+IM | BCC+FCC+B2 | 5 | 3 | H, OX, W | [78] |
|  |  | AC+1100C/2h/FC | SS+IM | BCC+FCC+B2 | 5 | 3 | H, OX, W | [78] |
|  |  | AC+700C/20h/FC | SS+IM | BCC+FCC+IM | 5 | 3 | H, OX, W | [78] |
|  |  | AC | SS | BCC+FCC | 5 | 2 | H | [37] |
|  |  | AC+700C/20h | SS+IM | BCC+FCC+σ | 5 | 3 | H | [37] |
|  | Al0.5CrFe1.5MnNi0.5 | AC | SS | BCC | 5 | 1 | C | [77] |
|  |  | AC | SS+IM | 2BCC+B2 | 5 | 3 | H,O X, W | [78] |
|  |  | AC+FOR/1200C(50%)+1100C/6h/AC | SS+IM | 2BCC+B2 | 5 | 3 | H, OX, W | [78] |
|  |  | AC+700C/20h/FC | SS+IM | 2BCC+B2+IM | 5 | 4 | H, OX, W | [78] |
|  |  | AC | SS | BCC | 5 | 1 | H | [37] |
|  |  | AC+700C/20h | SS+IM | BCC+σ | 5 | 2 | H | [37] |
|  | Al0.8CrFe1.5MnNi0.5 | AC | SS | BCC | 5 | 1 | H | [37] |
|  |  | AC+700C/20h | SS | BCC | 5 | 1 | H | [37] |
|  | Al1.2CrFe1.5MnNi0.5 | AC | SS | BCC | 5 | 1 | H | [37] |
|  |  | AC+700C/20h | SS+IM | BCC+B2 | 5 | 2 | H | [37] |
| AlCrFeMoNi | AlCrFeMo0.2Ni | AC | SS+IM | BCC+B2 | 5 | 2 | H, M | [79] |
|  | AlCrFeMo0.5Ni | AC | SS+IM | BCC+B2 | 5 | 2 | H, M | [79] |
|  | AlCrFeMo0.8Ni | AC | IM | B2+σ | 5 | 2 | H, M | [79] |
|  | AlCrFeMoNi | AC | IM | B2+σ | 5 | 2 | H, M | [79] |
| AlCrFeNi | Al0.15CrFe1.5Ni0.5 | AC | SS | 2BCC | 4 | 2 | H | [80] |
|  | Al0.2CrFe1.5Ni0.5 | AC | SS | 2BCC | 4 | 2 | H | [80] |
|  | Al0.3CrFe1.5Ni0.5 | AC | IM | B2 | 4 | 1 | H | [80] |
|  | Al0.4CrFe1.5Ni0.5 | AC | IM | B2 | 4 | 1 | H | [80] |
|  | AlCrFeNi | AC | SS+IM | BCC+B2 | 4 | 2 | H, M | [79] |
| AlCrFeNiTiV | Al0.5CrFeNiTiV | AC+700C/20h | IM | C15+L21 | 6 | 2 | H | [37] |
| CoCrCuFeMn | CoCrCuFeMn | AC+850C/72h | SS | 2FCC | 5 | 2 |  | [81] |
| CoCrCuFeMnNi | CoCrCuFeMnNi | AC | SS | FCC | 6 | 1 | H | [82] |
| CoCrCuFeMnNiTiV | CoCrCuFeMnNiTiV | AC | SS+IM | 2BCC+FCC+σ+Unk | 8 | 5 | M | [5] |
| CoCrCuFeNi | CoCrCu0.5FeNi | AC | SS | FCC | 5 | 1 | C | [83] |
|  |  | AC | SS | 2FCC | 5 | 2 |  | [2] |
|  |  | AC | SS | 3FCC | 5 | 3 | H | [84] |
|  |  | AC+1050C/1h+1250/24h | SS | 3FCC | 5 | 3 | H | [84] |
|  |  | AC+1050C/1h+1350/24h | SS | 2FCC | 5 | 2 | H | [84] |
|  |  | AC | SS | 3FCC | 5 | 3 | H, C | [85] |
|  |  | AC+1050C/1h+1250/24h/WQ | SS | 3FCC | 5 | 3 | H, C | [85] |
|  |  | AC+1050C/1h+1350/24h/WQ | SS | 3FCC | 5 | 3 | H, C | [85] |
|  | CoCrCuFeNi | AC | SS | FCC | 5 | 1 | H, M | [9] |
|  |  | AC | SS | FCC | 5 | 1 | H | [12] |
|  |  | AC | SS | FCC | 5 | 1 | C | [83] |
|  |  | AC | SS | FCC | 5 | 1 | H | [10] |
|  |  | AC | SS | 2FCC | 5 | 2 | DSC, M, MAG | [86] |
|  |  | AC | SS | FCC | 5 | 1 | M | [7] |
|  |  | MA+SPS | SS+IM | 2FCC+σ | 5 | 3 | H | [3] |
| CoCrCuFeNiTi | CoCrCuFeNiTi0.5 | AC | SS | 2FCC | 6 | 2 | DSC, M, MAG | [86] |
|  |  | AC | SS | 2FCC | 6 | 2 | M | [33] |
|  | CoCrCuFeNiTi0.8 | AC | SS+IM | FCC+C14 | 6 | 2 | DSC, M, MAG | [86] |
|  | CoCrCuFeNiTi | AC | SS+IM | FCC+C14 | 6 | 2 | DSC, M, MAG | [86] |
|  | CoCrCuFeNiTi2.5 | AC | IM | Unk | 6 | ≥3 |  | [24] |
| CoCrFeGeMnNi | CoCrFeGeMnNi | AC | SS | BCC+FCC | 6 | 2 | H | [82] |
| CoCrFeMn | Co0.25Cr0.25FeMn | AC | SS | FCC | 4 | 1 | MT | [87] |
|  |  | AC+HR/900C(50%)+1200C/2h/WQ | SS | FCC | 4 | 1 | MT | [87] |
| CoCrFeMnNbNi | CoCrFeMnNbNi | AC | SS | FCC | 6 | 1 | H | [82] |
| CoCrFeMnNi | Co0.5CrFeMn1.5Ni | AC+700C/20h | SS+IM | FCC+σ | 5 | 2 | H | [37] |
|  | CoCr0.4Fe8Mn5.4Ni5.2 | AC | SS | FCC | 5 | 1 | DSC, MT | [88] |
|  |  | AC+HR/900C(50%)+1200C/2h/WQ | SS | FCC | 5 | 1 | DSC, MT | [88] |
|  |  | AC+HR/900C(50%)+1200C/2h/WQ+CR(64%)+900C/10min | SS | FCC | 5 | 1 | DSC, MT | [88] |
|  | CoCr0.75FeMn0.75Ni | AC+700C/20h | SS | FCC | 5 | 1 | H | [37] |
|  | CoCrFe0.5Mn0.5Ni1.5 | AC+700C/20h | SS | FCC | 5 | 1 | H | [37] |
|  | CoCrFeMnNi | AC | SS | FCC | 5 | 1 | H | [82] |
|  |  | AC+1000C/72h | SS | FCC | 5 | 1 |  | [81] |
|  |  | AC | SS | FCC | 5 | 1 | H, MT | [36] |
|  |  | AC+1200/24h/WQ | SS | FCC | 5 | 1 | H | [89] |
|  |  | AC+1200C/48h | SS | FCC | 5 | 1 | H, MT | [90] |
|  |  | AC+1200C/48h+HPT+450C/5min | SS+IM | BCC+FCC+IM | 5 | 3 | H, MT | [90] |
|  |  | AC+1200C/48h+HPT+450C/1h | SS+IM | BCC+FCC+IM | 5 | 3 | H, MT | [90] |
|  |  | AC+1200C/48h+HPT+450C/15h | SS+IM | BCC+FCC+2IM | 5 | 4 | H, MT | [90] |
|  |  | AC+1200C/48h+HPT+600C/1h | SS+IM | FCC+IM | 5 | 2 | H, MT | [90] |
|  |  | AC+1200C/48h+HPT+700C/1h | SS+IM | FCC+IM | 5 | 2 | H, MT | [90] |
|  |  | AC+1200C/48h+HPT+800C/1h | SS | FCC | 5 | 1 | H, MT | [90] |
|  |  | AC+1000C/24h+CR(80%)+1100C/1h | SS | FCC | 5 | 1 | H, MT | [91] |
|  |  | AC+1000C/24h+CR(80%)+575C/1h | SS | FCC | 5 | 1 | H, MT | [91] |
|  |  | AC | SS | FCC | 5 | 1 | H, M | [92] |
|  |  | AC+1000C/24h | SS | FCC | 5 | 1 | H, M | [92] |
|  | CoCr1.25FeMn0.25Ni | AC+700C/20h | SS | FCC | 5 | 1 | H | [37] |
|  | CoCr1.3FeMnNi0.7 | AC+1000C/24h+CR(80%)+1100C/1h | SS | FCC | 5 | 1 | H, MT | [91] |
|  |  | AC+1000C/24h+CR(80%)+800C/1h | SS | FCC | 5 | 1 | H, MT | [91] |
|  |  | AC+1000C/24h+CR(80%)+700C/1h | SS+IM | FCC+σ | 5 | 2 | H, MT | [91] |
|  |  | AC+1000C/24h+CR(80%)+575C/1h | SS+IM | FCC+σ | 5 | 2 | H, MT | [91] |
|  | Co1.4CrFeMnNi | AC+1000C/24h+CR(80%)+1100C/1h | SS | FCC | 5 | 1 | H, MT | [91] |
|  |  | AC+1000C/24h+CR(80%)+575C/1h | SS | FCC | 5 | 1 | H, MT | [91] |
|  | Co1.5Cr0.5FeMn0.5Ni | AC+700C/20h | SS | FCC | 5 | 1 | H | [37] |
| CoCrFeMnNiTi | CoCrFeMnNiTi | AC | SS | BCC+FCC | 6 | 2 | H | [82] |
| CoCrFeMnNiV | CoCrFeMnNiV0.25 | AC | SS | FCC | 6 | 1 | H, M | [92] |
|  |  | AC+1000C/24h | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
|  | CoCrFeMnNiV0.5 | AC | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
|  |  | AC+1000C/24h | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
|  | CoCrFeMnNiV0.75 | AC | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
|  |  | AC+1000C/24h | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
|  | CoCrFeMnNiV | AC | SS | BCC+FCC | 6 | 2 | H | [82] |
|  |  | AC | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
|  |  | AC+1000C/24h | SS+IM | FCC+σ | 6 | 2 | H, M | [92] |
| CoCrFeMoNi | CoCrFeMo0.3Ni | AC | SS | FCC | 5 | 1 |  | [38] |
|  |  | AM | SS+IM | FCC+σ | 5 | 2 | H, M | [93] |
|  | CoCrFeMo0.5Ni | AM | SS+IM | FCC+σ | 5 | 2 | H, M | [93] |
|  | CoCrFeMo0.85Ni | AM | SS+IM | FCC+σ+D85 | 5 | 3 | H, M | [93] |
| CoCrFeMoNiTi | Co1.5CrFeMo0.1Ni1.5Ti0.5 | AC | SS | FCC | 6 | 1 | C | [94] |
|  | Co1.5CrFeMo0.5Ni1.5Ti0.5 | AC | SS+IM | FCC+σ | 6 | 2 | C | [94] |
|  | Co1.5CrFeMo0.8Ni1.5Ti0.5 | AC | SS+IM | FCC+σ | 6 | 2 | C | [94] |
| CoCrFeNbNi | CoCrFeNb0.103Ni | AC | SS+IM | FCC+C14 | 5 | 2 | MT | [95] |
|  | CoCrFeNb0.155Ni | AC | SS+IM | FCC+C14 | 5 | 2 | MT | [95] |
|  | CoCrFeNb0.206Ni | AC | SS+IM | FCC+C14 | 5 | 2 | MT | [95] |
|  | CoCrFeNb0.309Ni | AC | SS+IM | FCC+C14 | 5 | 2 | MT | [95] |
|  | CoCrFeNb0.412Ni | AC | SS+IM | FCC+C14 | 5 | 2 | MT | [95] |
| CoCrFeNi | CoCrFeNi | AC | SS | 2FCC | 4 | 2 | C | [83] |
|  |  | AC | SS | FCC | 4 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | FCC | 4 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ+CR(50%) | SS | FCC | 4 | 1 | H | [47] |
|  |  | AC+1100C/24h/WQ | SS | FCC | 4 | 1 | CTE, D, R | [48] |
|  |  | AC+CR | SS | FCC | 4 | 1 | MAG | [29] |
|  |  | AC | SS | FCC | 4 | 1 | H | [46] |
|  |  | AC | SS | FCC | 4 | 1 | H, M | [93] |
|  |  | MA+SPS | SS+IM | FCC+σ | 4 | 2 | H | [3] |
|  |  | AC+1200/24h/WQ | SS | FCC | 4 | 1 | H | [89] |
|  |  | AM (20 m layer) | SS | FCC | 4 | 1 | CTE, DSC, H, MT | [96] |
|  |  | AM (20 m layer)+750C/12h/WQ | SS | FCC | 4 | 1 | CTE, DSC, H, MT | [96] |
|  |  | AM (20 m layer)+1000C/12h/WQ | SS | FCC | 4 | 1 | CTE, DSC, H, MT | [96] |
|  |  | AC | SS | FCC | 4 | 1 | MT | [95] |
|  |  | AC+1000C/24h+CR(80%)+1100C/1h | SS | FCC | 4 | 1 | H, MT | [91] |
|  |  | AC+1000C/24h+CR(80%)+575C/1h | SS | FCC | 4 | 1 | H, MT | [91] |
|  | CoCr2FeNi | AC+700C/20h | SS+IM | FCC+ | 4 | 2 | H | [37] |
| CoCrFeNiPd | CoCrFeNiPd | AC+CR | SS | FCC | 5 | 1 | MAG | [29] |
|  | CoCrFeNiPd2 | AC+CR | SS | FCC | 5 | 1 | MAG | [29] |
| CoCrFeNiTi | Co0.5CrFeNiTi0.5 | MA+SPS | SS+IM | FCC+σ | 5 | 2 | M | [97] |
|  | CoCrFeNiTi0.3 | AC | SS+IM | FCC+HCP+L12 | 5 | 3 |  | [38] |
|  |  | AC | SS+IM | FCC+C14+IM+ | 5 | 4 | H | [98] |
|  |  | AC+600C/6h/FC | SS+IM | FCC+C14+IM+ | 5 | 4 | H | [98] |
|  |  | AC+700C/6h/FC | SS+IM | FCC+C14+IM+ | 5 | 4 | H | [98] |
|  |  | AC+800C/6h/FC | SS+IM | FCC+C14+IM+ | 5 | 4 | H | [98] |
|  |  | AC+1000C/6h/FC | SS+IM | FCC+IM+ | 5 | 3 | H | [98] |
|  | CoCrFeNiTi | AC | SS | 2FCC | 5 | 2 |  | [63] |
|  |  | AC | SS+IM | BCC+FCC+E93 | 5 | 3 |  | [64] |
|  |  | AC+1000C/2h | SS+IM | BCC+FCC+C14+E93+Unk | 5 | 5 |  | [64] |
|  | Co1.5CrFeNi1.5Ti0.5 | AC | SS | FCC | 5 | 1 | C | [94] |
|  |  | AC+1100C/4h/AC+800C/10h/AC | SS+IM | FCC+D024 | 5 | 2 | H, W | [62] |
|  | Co1.5CrFeNi1.5Ti | AC+1100C/4h/AC+800C/10h/AC | SS+IM | FCC+D024 | 5 | 2 | H, W | [62] |
| CoCrMnNi | CoCrMnNi | AC+1100/24h/WQ | SS | FCC | 4 | 1 | H | [89] |
| CoCrMnNiV | CoCrMnNiV | AC+1000C/72h | SS+IM | FCC+ | 5 | 2 |  | [81] |
| CoCuFeMnNi | CoCuFeMnNi | AC | SS | FCC | 5 | 1 | H, MT | [99] |
| CoCuFeMnNiSn | CoCuFeMnNiSn0.03 | AC | SS | FCC | 6 | 1 | H, MT | [99] |
|  | CoCuFeMnNiSn0.05 | AC | SS+IM | FCC+IM | 6 | 2 | H, MT | [99] |
|  | CoCuFeMnNiSn0.08 | AC | SS+IM | FCC+IM | 6 | 2 | H, MT | [99] |
|  | CoCuFeMnNiSn0.1 | AC | SS+IM | FCC+IM | 6 | 2 | H, MT | [99] |
|  | CoCuFeMnNiSn0.2 | AC | SS+IM | FCC+IM | 6 | 2 | H, MT | [99] |
| CoCuFeNi | CoCuFeNi | MA+SPS | SS | 2FCC | 4 | 2 | H | [3] |
|  |  | AC | SS | FCC | 4 | 1 | MT | [100] |
| CoCuFeNiSn | CoCuFeNiSn0.04 | AC | SS+IM | FCC+IM | 5 | 2 | MT | [100] |
|  | CoCuFeNiSn0.05 | AC | SS+IM | FCC+IM | 5 | 2 | MT | [100] |
|  | CoCuFeNiSn0.07 | AC | SS+IM | FCC+IM | 5 | 2 | MT | [100] |
|  | CoCuFeNiSn0.1 | AC | SS+IM | FCC+IM | 5 | 2 | MT | [100] |
|  | CoCuFeNiSn0.2 | AC | SS+IM | FCC+IM | 5 | 2 | MT | [100] |
|  | CoCuFeNiSn0.5 | AC | SS+IM | FCC+IM | 5 | 2 | MT | [100] |
| CoCuFeNiTi | CoCuFeNiTi | AC | SS | FCC | 5 | 1 |  | [68] |
| CoCuFeNiV | CoCuFeNiV | AC | SS | 2FCC | 5 | 2 |  | [24] |
| CoFeMnMoNi | CoFeMnMoNi | AC+1000C/72h | SS+IM | FCC+D85 | 5 | 2 |  | [81] |
| CoFeMnNi | CoFeMnNi | AC+1100/24h/WQ | SS | FCC | 4 | 1 | H | [89] |
| CoFeMnNiV | CoFeMnNiV | AC+1000C/72h | SS+IM | FCC+ | 5 | 2 |  | [81] |
| CoFeMnTiVZr | CoFeMnTi0.5VZr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV0.4Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV0.7Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr0.4 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr0.7 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr1.3 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr1.6 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr2 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr2.3 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr2.6 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiVZr3 | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV1.3Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV1.6Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV2Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV2.3Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV2.6Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTiV3Zr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTi1.5VZr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTi2VZr | AC | IM | C14 | 6 | 1 | HY | [101] |
|  | CoFeMnTi2.5VZr | AC | IM | C14 | 6 | 1 | HY | [101] |
| CoFeNiTi | CoFeNiTi | AC | Unk | FCC+Unk | 4 | 2 |  | [68] |
| CrCuFeMnNi | Cr0.5CuFeMn0.5Ni | AC | SS | 2FCC | 5 | 2 |  | [102] |
|  | Cr0.5CuFeMnNi0.5 | AC | SS | BCC+2FCC | 5 | 3 |  | [102] |
|  | CrCu0.5FeMnNi | AC | SS | 2FCC | 5 | 2 |  | [102] |
|  | CrCuFe0.5Mn0.5Ni | AC | SS | BCC+2FCC | 5 | 3 |  | [102] |
|  | CrCuFe0.5MnNi0.5 | AC | SS | BCC+FCC | 5 | 2 |  | [102] |
|  | CrCuFeMnNi | AC | SS | BCC+2FCC | 5 | 3 | H | [10] |
|  |  | AC | SS | BCC+2FCC | 5 | 3 |  | [102] |
|  | CrCuFeMn2Ni2 | AC | SS | FCC | 5 | 1 |  | [102] |
|  | Cr2CuFe2MnNi | AC | SS | BCC+2FCC | 5 | 3 |  | [102] |
| CrFeMnNi | Cr0.66FeMnNi | AC+1200C/24h/WQ | SS | FCC | 4 | 1 | MT | [103] |
|  |  | AC+1200C/24h/WQ+CR(86%)+900C/1h | SS | FCC | 4 | 1 | MT | [103] |
|  | CrFe1.5MnNi0.5 | AC | SS+IM | BCC+ | 4 | 2 | C | [77] |
|  |  | AC | SS+IM | FCC+σ | 4 | 2 | H | [37] |
|  |  | AC+700C/20h | SS+IM | FCC+σ | 4 | 2 | H | [37] |
| CrFeMnNiTi | CrFeMnNiTi | AC+1000C/72h | SS+IM | A12+BCC+C14+Unk | 5 | 4 |  | [81] |
| **Refractory Metal Alloy Family** | | | | | | | | |
| AlCrMoSiTi | AlCrMoSiTi | AC | IM | B2+D8m | 5 | 2 |  | [104] |
| AlHfNbTaTiZr | Al0.4Hf0.6NbTaTiZr | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | BCC | 6 | 1 | H, M | [105] |
|  |  | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | BCC | 6 | 1 | D, H, M | [106] |
| AlMoNbTaTiZr | AlMo0.5NbTa0.5TiZr | AC+HIP/1400C/207MPa/2h+1400C/24h/FC | SS | 2BCC | 6 | 2 | D, H, M | [106] |
|  |  | AC+HIP/1400C/207MPa/2h+1400C/24h/FC | SS+IM | BCC+B2 | 6 | 2 |  | [107] |
|  |  | AC+HIP/1400C/207MPa/2h+1400C/24h/FC | SS+IM | BCC+B2 | 6 | 2 |  | [108] |
| AlNbTaTiV | Al0.25NbTaTiV | AC | SS | BCC | 5 | 1 | M | [109] |
|  | Al0.5NbTaTiV | AC | SS | BCC | 5 | 1 | M | [109] |
|  | AlNbTaTiV | AC | SS | BCC | 5 | 1 | M | [109] |
| AlNbTaTiVZr | Al0.3NbTa0.8Ti1.4V0.2Zr1.3 | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | BCC | 6 | 1 | M | [106] |
|  | Al0.5NbTa0.8Ti1.5V0.2Zr | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | 2BCC | 6 | 2 | M | [106] |
| AlNbTaTiZr | Al0.3NbTaTi1.4Zr1.3 | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | 2BCC | 5 | 2 | M | [106] |
|  | AlNb1.5Ta0.5Ti1.5Zr0.5 | AC+HIP/1400C/207MPa/2h+1400C/24h/FC | SS | BCC | 5 | 1 | M | [106] |
| AlTiVYZr | AlTiVYZr | AC | IM | Unk | 5 | ≥3 |  | [24] |
| CrMoNbTaTiZr | CrMo0.5NbTa0.5TiZr | AC | SS+IM | 2BCC+C15 | 6 | 3 | D, H, M | [110] |
|  |  | AC+HIP/1450C/207MPa/3h | SS+IM | 2BCC+C15 | 6 | 3 | D, H, M | [110] |
| CrNbTiVZr | CrNbTiVZr | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS+IM | BCC+C15 | 5 | 2 | D, H | [111] |
| CrNbTiZr | CrNbTiZr | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS+IM | BCC+C15 | 4 | 2 | D, H | [111] |
| HfNbTaTiZr | HfNbTaTiZr | AC+HIP/1200C/207MPa/3h | SS | BCC+Unk | 5 | 2 | D, H, M | [112] |
|  |  | AC+HIP/1200C/207MPa/2h+1200C/24h+CR(86%)+800C/2h/FC | SS | 2BCC | 5 | 2 | H, MT | [113] |
|  |  | AC+HIP/1200C/207MPa/2h+1200C/24h+CR(86%)+1000C/2h/FC | SS | BCC | 5 | 1 | H, MT | [113] |
|  |  | AC+HIP/1200C/207MPa/2h+1200C/24h+CR(86%)+1200C/2h/FC | SS | BCC | 5 | 1 | H, MT | [113] |
| HfNbTiZr | HfNbTiZr | AC | SS | BCC | 4 | 1 | DSC, MT | [114] |
|  |  | AC+1300C/6h/FC | SS | BCC | 4 | 1 | DSC, MT | [114] |
| MoNbTaVW | MoNbTaVW | AC | SS | BCC | 5 | 1 | D, H | [115] |
|  |  | AC | SS | BCC | 5 | 1 | M | [116] |
|  |  | AC+1400C/19h | SS | BCC | 5 | 1 | M | [116] |
| MoNbTaW | MoNbTaW | AC | SS | BCC | 4 | 1 | D, H | [115] |
|  |  | AC | SS | BCC | 4 | 1 | M | [116] |
|  |  | AC+1400C/19h | SS | BCC | 4 | 1 | M | [116] |
| MoNbTiVZr | MoNbTiV0.25Zr | AC | SS | 2BCC | 5 | 2 | M, MAG | [45] |
|  | MoNbTiV0.5Zr | AC | SS | 2BCC | 5 | 2 | M, MAG | [45] |
|  | MoNbTiV0.75Zr | AC | SS | 2BCC | 5 | 2 | M, MAG | [45] |
|  | MoNbTiVZr | AC | SS | BCC+Unk | 5 | 2 | M, MAG | [45] |
|  | MoNbTiV1.5Zr | AC | SS | 2BCC | 5 | 2 | M, MAG | [45] |
|  | MoNbTiV2Zr | AC | SS | 2BCC | 5 | 2 | M, MAG | [45] |
|  | MoNbTiV3Zr | AC | SS | 2BCC | 5 | 2 | M, MAG | [45] |
| MoNbTiZr | MoNbTiVZr | AC | SS | 2BCC | 4 | 2 | M, MAG | [45] |
| NbTaTiV | NbTaTiV | AC | SS | BCC | 4 | 1 | M | [109] |
| NbTiVZr | NbTiVZr | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | BCC | 4 | 1 | D, H | [111] |
|  | NbTiV2Zr | AC+HIP/1200C/207MPa/2h+1200C/24h/FC | SS | 3BCC | 4 | 3 | D, H | [111] |
| **Light Metal Alloy Family** | | | | | | | | |
| AlCuLiMgSn | AlCu0.5Li0.5MgSn0.2 | AC | SS+IM | A5+D02+2IM | 5 | 4 | D, M | [117] |
| AlCuLiMgZn | AlCu0.2Li0.5MgZn0.5 | AC | IM | IM | 5 | 1 | D, M | [117] |
|  | Al16CuLiMgZn | AC | SS+IM | FCC+C16+IM | 5 | 3 | D, M | [117] |
| AlLiMgScTi | AlLiMg0.5ScTi1.5 | MA+CP | SS | FCC | 5 | 1 | H | [118] |
|  |  | MA+CP+500C/1h | SS | HCP | 5 | 1 | H | [118] |
| AlLiMgSnZn | AlLi0.5MgSn0.2Zn0.5 | AC | SS+IM | FCC+D02+2IM | 5 | 4 | D, M | [117] |
|  | AlLiMgSnZn | AC | SS+IM | A5+FCC+HCP+D02+IM | 5 | 5 | D, M | [117] |
|  | Al16LiMgSnZn | AC | SS+IM | A5+FCC+D02+IM | 5 | 4 | D, M | [117] |
| **4f Transition Metal Alloy Family** | | | | | | | | |
| DyGdLuTbTm | DyGdLuTbTm | AC | SS | HCP+Unk | 5 | 2 |  | [119] |
| DyGdLuTbY | DyGdLuTbY | AC | SS | HCP+Unk | 5 | 2 |  | [119] |
| **Boride/Carbide/Nitride Metal Alloy Family** | | | | | | | | |
| AlBCoCrCuFeNi | Al0.5B0.2CoCrCuFeNi | AC | SS+IM | FCC+IM | 7 | 2 | M, W | [13] |
|  | Al0.5B0.6CoCrCuFeNi | AC | SS+IM | FCC+IM | 7 | 2 | M, W | [13] |
|  | Al0.5BCoCrCuFeNi | AC | IM | L12+IM | 7 | 2 | M, W | [13] |
| AlCCoCrFeNi | AlC0.1CoCrFeNi | AC | SS+IM | BCC+IM | 6 | 2 | M | [58] |
|  | AlC0.2CoCrFeNi | AC | SS+IM | BCC+IM | 6 | 2 | M | [58] |
|  | AlC0.3CoCrFeNi | AC | SS+IM | BCC+IM | 6 | 2 | M | [58] |
|  | AlC0.4CoCrFeNi | AC | SS+IM | BCC+IM | 6 | 2 | M | [58] |
|  | AlC0.5CoCrFeNi | AC | SS+IM | BCC+IM | 6 | 2 | M | [58] |
|  | AlCCoCrFeNi | AC | SS+IM | BCC+Graphite+IM | 6 | 3 | M | [58] |
|  | AlC1.5CoCrFeNi | AC | SS+IM | BCC+Graphite+IM | 6 | 3 | M | [58] |
| **Other CCA Families** | | | | | | | | |
| AlCuNi | AlCuNi | AC | SS+IM | FCC+B2 | 3 | 2 |  | [25] |
| BeCuNiTiVZr | BeCuNiTiVZr | AC | IM | Unk | 6 | ≥2 |  | [24] |
| CoCrNi | CoCrNi | AC+1200/24h/WQ | SS | FCC | 3 | 1 | H | [89] |
| CoCuHfTiZr | CoCuHfTiZr | MS | SS | AM | 5 | 1 | DSC, M | [120] |
| CoFeNi | CoFeNi | MA+SPS | SS | FCC | 3 | 1 | H | [3] |
|  |  | AC | SS | FCC | 3 | 1 |  | [68] |
|  |  | AC | SS | FCC | 3 | 1 | H, M, MAG, R | [70] |
|  |  | AC+1200/24h/WQ | SS | FCC | 3 | 1 | H | [89] |
| CoFeNiSi | CoFeNiSi0.25 | AC | SS | FCC | 4 | 1 | H, M, MAG, R | [70] |
|  | CoFeNiSi0.5 | AC | SS+IM | FCC+Ni3Si | 4 | 2 | H, M, MAG, R | [70] |
|  | CoFeNiSi0.75 | AC | SS+IM | FCC+Ni3Si | 4 | 2 | H, M, MAG, R | [70] |
| CoMnNi | CoMnNi | AC+1100/24h/WQ | SS | FCC | 3 | 1 | H | [89] |
| CrFeNi | CrFeNi | AC+1200/24h/WQ | SS | FCC | 3 | 1 | H | [89] |
| CuFeHfTiZr | CuFeHfTiZr | MS | SS | AM | 5 | 1 | DSC, M | [120] |
| CuHfNiTiZr | CuHfNiTiZr | MS | SS | AM | 5 | 1 | DSC, M | [120] |
|  |  | AC | SS | AM | 5 | 1 | DSC, M | [120] |
| FeMnNi | FeMnNi | AC+1100/24h/WQ | SS | FCC | 3 | 1 | H | [89] |
| MoPdRhRu | MoPdRhRu | AC+1700C/20h | SS | HCP | 4 | 1 | H | [121] |
| MoRhRu | MoRhRu | AC+1700C/20h | SS | HCP | 3 | 1 | H | [121] |

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