alloy	Year	Journal	Paper	DOI	test_method	temperature_tes	yield_streng	state
Nb40Ti25Al15V10Ta5Hf3W2	2022	Materials Science & Engin	A ductile Nb40Ti25Al15V10Ta5Hf3W2 refractory high entropy alloy with high specific strength for	10.1016/j.msea.2021.14229(	compressive	298	1024	as cast
Nb40Ti25Al15V10Ta5Hf3W2	2022	Materials Science & Engin	A ductile Nb40Ti25Al15V10Ta5Hf3W2 refractory high entropy alloy with high specific strength for	10.1016/j.msea.2021.14229(	compressive	1073	611	as cast
Nb40Ti25Al15V10Ta5Hf3W2	2022	Materials Science & Engin	A ductile Nb40Ti25Al15V10Ta5Hf3W2 refractory high entropy alloy with high specific strength for	10.1016/j.msea.2021.14229(	compressive	1173	437	as cast
Nb40Ti25Al15V10Ta5Hf3W2	2022	Materials Science & Engin	A ductile Nb40Ti25Al15V10Ta5Hf3W2 refractory high entropy alloy with high specific strength for	10.1016/j.msea.2021.14229(	compressive	1273	237	as cast
HfNbTaTi3Zr2					compressive	298	903	as cast
HfNbTiZr	2014	Materials Letters	A refractory Hf25Nb25Ti25Zr25 high-entropy alloy with excellent structural stability and tensile prop	10.1016/j.matlet.2014.05.13	tensile	298	879	no
HfMoTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	298	1600	as cast
HfMoTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	1073	1045	as cast
HfMoTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	1273	855	as cast
HfMoTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	1473	404	as cast
HfMoNbTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	298	1512	as cast
HfMoNbTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	1073	1007	as cast
HfMoNbTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	1273	814	as cast
HfMoNbTaTiZr	2015	Intermetallics	Enhanced mechanical properties of HfMoTaTiZr and HfMoNbTaTiZr refractory high-entropy alloys	10.1016/j.intermet.2015.03.(	compressive	1473	556	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	298	820	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	298	1719	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	298	1575	no
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	1073	825	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	1173	728	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	1273	635	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	1373	397	as cast
HfNbTaTiZr	2015	Materials & Design	Microstructure and mechanical properties of refractory MoNbHfZrTi high-entropy alloy	10.1016/j.matdes.2015.05.0	compressive	1473	187	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	296	1058	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	873	561	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1073	552	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1273	548	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1473	506	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1673	421	as cast
MoNbTaW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1873	405	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	296	1246	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	873	862	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1073	846	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1273	842	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1473	735	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1673	656	as cast
MoNbTaVW	2011	Intermetallics	Mechanical properties of Nb25Mo25Ta25W25 and V20Nb20Mo20Ta20W20 refractory high entropy	10.1016/j.intermet.2011.01.(	compressive	1873	477	as cast
AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	296	1385	no
AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	773	995	no
AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	873	870	no
AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	973	1005	no
AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	1023	780	no

AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	1073	700	no
AlNbTiVZr0.25	2022	Materials Letters	On the yield stress anomaly in a B2-ordered refractory AlNbTiVZr0.25 high-entropy alloy	10.1016/j.matlet.2021.13158	compressive	1173	270	no
VNbTa	2021	Materials Science & Engin	Novel BCC VNbTa refractory multi-element alloys with superior tensile properties	10.1016/j.msea.2021.141908	tensile	296	925	as cast
MoNbTaTiV	2020	Materials Science & Engin	Effects of Al addition on the microstructures and properties of MoNbTaTiV refractory high entropy a	10.1016/j.msea.2020.139275	compressive	296	1228	as cast
Al0.2MoNbTaTiV	2020	Materials Science & Engin	Effects of Al addition on the microstructures and properties of MoNbTaTiV refractory high entropy a	10.1016/j.msea.2020.139275	compressive	296	1292	as cast
Al0.4MoNbTaTiV	2020	Materials Science & Engin	Effects of Al addition on the microstructures and properties of MoNbTaTiV refractory high entropy a	10.1016/j.msea.2020.139275	compressive	296	1332	as cast
Al0.6MoNbTaTiV	2020	Materials Science & Engin	Effects of Al addition on the microstructures and properties of MoNbTaTiV refractory high entropy a	10.1016/j.msea.2020.139275	compressive	296	1352	as cast
AlMoNbTaTiV	2020	Materials Science & Engin	Effects of Al addition on the microstructures and properties of MoNbTaTiV refractory high entropy a	10.1016/j.msea.2020.139275	compressive	296	1391	as cast
Hf4Nb2Ti7Zr7	2022	Scripta Materialia	Strengthening mechanisms and microstructural evolution of ductile refractory medium-entropy alloy I	10.1016/j.scriptamat.2021.1	tensile	1174	524	no
Hf4Nb2Ti7Zr7	2022	Scripta Materialia	Strengthening mechanisms and microstructural evolution of ductile refractory medium-entropy alloy I	10.1016/j.scriptamat.2021.1	tensile	1174	1031	no
Hf4Nb2Ti7Zr7	2022	Scripta Materialia	Strengthening mechanisms and microstructural evolution of ductile refractory medium-entropy alloy I	10.1016/j.scriptamat.2021.1	tensile	1174	952	no
Hf4Nb2Ti7Zr7	2022	Scripta Materialia	Strengthening mechanisms and microstructural evolution of ductile refractory medium-entropy alloy I	10.1016/j.scriptamat.2021.1	tensile	1174	877	no
Hf4Nb2Ti7Zr7	2022	Scripta Materialia	Strengthening mechanisms and microstructural evolution of ductile refractory medium-entropy alloy I	10.1016/j.scriptamat.2021.1	tensile	1174	844	no
Hf4Nb2Ti7Zr7	2022	Scripta Materialia	Strengthening mechanisms and microstructural evolution of ductile refractory medium-entropy alloy I	10.1016/j.scriptamat.2021.1	tensile	1174	855	no
TaNbHfZrTi	2011	Journal of Alloys and Com	Microstructure and room temperature properties of a high-entropy TaNbHfZrTi alloy	10.1016/j.jallcom.2011.02.1	compressive	296	929	as cast
TiZrHfNbTa	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	296	805	as cast
TiZrHfNbTa	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	1273	195	as cast
TiZrHfNbTaN0.1	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	296	1600	as cast
TiZrHfNbTaN0.1	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	1273	225	as cast
TiZrHfNbTaN0.2	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	296	1970	as cast
TiZrHfNbTaN0.2	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	1273	264	as cast
TiZrHfNbTaN0.3	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	296	2080	as cast
TiZrHfNbTaN0.3	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	1273	262	as cast
TiZrHfNbTaN0.4	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	296	2125	as cast
TiZrHfNbTaN0.4	2022	Journal of Alloys and Com	Microstructure and mechanical properties of in-situ nitride-reinforced refractory high-entropy alloy Ti	10.1016/j.jallcom.2022.1653	compressive	1273	350	as cast
TiZrHfNb	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	296	1048	as cast
TiZrHfNbV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1170	no
TiZrHfNbV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1120	no
TiZrHfNbV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1253	no
TiZrHfNbV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1140	no
TiZrHfNbV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1157	no
TiZrHfNbCr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1375	no
TiZrHfNbCr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1420	no
TiZrHfNbCr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1457	no
TiZrHfNbCr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1322	no
TiZrHfNbCr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1328	no
HfNbTaTiZr	2016	Materials Letters	Solution strengthening of ductile refractory HfMo x NbTaTiZr high-entropy alloys	10.1016/j.matlet.2016.03.13	compressive	298	1015	as cast
HfNbTaTiZrMo0.25	2016	Materials Letters	Solution strengthening of ductile refractory HfMo x NbTaTiZr high-entropy alloys	10.1016/j.matlet.2016.03.13	compressive	298	1112	as cast
HfNbTaTiZrMo0.5	2016	Materials Letters	Solution strengthening of ductile refractory HfMo x NbTaTiZr high-entropy alloys	10.1016/j.matlet.2016.03.13	compressive	298	1317	as cast
HfNbTaTiZrMo0.75	2016	Materials Letters	Solution strengthening of ductile refractory HfMo x NbTaTiZr high-entropy alloys	10.1016/j.matlet.2016.03.13	compressive	298	1373	as cast
HfNbTaTiZrMo1.0	2016	Materials Letters	Solution strengthening of ductile refractory HfMo x NbTaTiZr high-entropy alloys	10.1016/j.matlet.2016.03.13	compressive	298	1512	as cast
HfTaNbZrTi	2012	J Mater Sci	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy	10.1007/s10853-012-6260-2	compressive	296	929	as cast

HfTaNbZrTi	2012	J Mater Sci	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy	10.1007/s10853-012-6260-2	compressive	673	790	as cast
HfTaNbZrTi	2012	J Mater Sci	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy	10.1007/s10853-012-6260-2	compressive	873	675	as cast
HfTaNbZrTi	2012	J Mater Sci	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy	10.1007/s10853-012-6260-2	compressive	1073	535	as cast
HfTaNbZrTi	2012	J Mater Sci	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy	10.1007/s10853-012-6260-2	compressive	1273	295	as cast
HfTaNbZrTi	2012	J Mater Sci	Microstructure and elevated temperature properties of a refractory TaNbHfZrTi alloy	10.1007/s10853-012-6260-2	compressive	1473	92	as cast
MoNbTaHf					compressive	296	1500	as cast
HfMoNbTaZr					compressive	1546	942	as cast
HfMoTaTiZr					compressive	1073	1045	as cast
HfMo0.5NbTiV0.5					compressive	298	1260	as cast
Hf0.25Nb0.5Ti1.0V0.5Zr0.5					compressive	873	859	as cast
HfMoNbTaZr					compressive	1473	694	as cast
HfMoNbTaTi					compressive	1273	778	as cast
Hf0.5Nb0.5Ti2VZr					compressive	873	718	as cast
HfTiNb(SiVMo)0.5					compressive	1273	614	as cast
HfTiZrTa0.4	2017	Advanced Materials	Phase-transformation ductilization of brittle high-entropy alloys via metastability engineering	10.1002/adma.201701678	tensile	298	400	as cast
Hf0.5NbVZrTi2					compressive	298	980	as cast
HfNbTaTiZrMo0.75					compressive	298	1373	as cast
HfNbTi(VMo)0.5	2017	Journal of Alloys and Compounds			compressive	1273	368	as cast
HfMoNbTaTiWZr					compressive	1473	703	as cast
HfMoTaTiZr					compressive	1473	404	as cast
HfMoNbTaTiZr					compressive	1073	1007	as cast
HfMoTaTiZr					compressive	296	1600	as cast
HfMoNbTiZr					compressive	296	1575	as cast
Hf1.0Ta0.6Ti1.0Zr1.0					tensile	298	800	as cast
Hf1.0Ta1.0Ti1.0Zr1.0					compressive	298	1500	as cast
Al0.3HfNbTaTiZr					compressive	298	1188	as cast
Hf0.25Nb0.12TiV0.5Zr0.5					compressive	298	1115	as cast
HfNbTiZr					compressive	1273	154	as cast
HfNbTaTiWZr					compressive	1073	577	as cast
HfNbTaZr					compressive	298	1315	as cast
HfMoNbTaTi					compressive	1073	822	as cast
Al0.75HfNbTaTiZr				10.1016/j.dib.2018.10.071	compressive	298	1415	as cast
HfNbTaTiWZr					compressive	298	1550	as cast
HfMoNbTaZr					compressive	1073	1005	as cast
Hf0.25Nb0.25Ti1.0V0.5Zr0.5					compressive	1073	135	as cast
HfMoNbTaTiWZr					compressive	1073	1065	as cast
HfMoNbTaTi					compressive	1473	699	as cast
Hf0.25Ti1.0V0.5Zr0.5					compressive	1073	85	as cast
Hf1.0Mo1.0Nb1.0Ti1.0Zr1.0					compressive	1073	829	as cast
Hf0.25Nb0.25Ti1.0V0.5Zr0.5					compressive	298	1065	as cast
HfMoNbTaTiWZr					compressive	1273	736	as cast
Hf0.25TiV0.5Zr0.5	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	873	405	as cast

HfNbTiZr	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	1073	303	as cast
HfNbTaTiWZr	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	1273	409	as cast
HfMoNbTaZr	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	1673	278	as cast
Hf0.25TiV0.5Zr0.5	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	298	1160	as cast
Hf1.0Ta0.5Ti1.0Zr1.0	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	tensile	298	700	as cast
Hf0.26Nb1.0Ta1.0Ti0.58Zr0.42	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	298	845	as cast
HfNbTaTiWZr	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	1473	345	as cast
HfMoNbTaTi	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	1673	367	as cast
Hf0.26Nb1.0Ta1.0Ti0.58Zr0.42	2019	Acta Metallurgica Sinica-E	A Novel Series of Refractory High-Entropy Alloys Ti2ZrHf0.5VNbx with High Specific Yield Streng	10.1007/s40195-019-00921-	compressive	473	650	as cast
Al0.6Co1.0Cr0.33Fe0.33Mo0.1Ni0.97					compressive	298	1198.3	as cast
AlCoCrFeMo0.4Ni	2010	MSEA	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys		compressive	298	2670	as cast
Al0.25MoNbTiV	2013	Entropy	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys	https://doi.org/10.3390/e160	compressive	298	1250	as cast
AlCrMoNbTi					compressive	1273	594	as cast
Co1.0Cr1.0Fe1.0Mo0.15Ni1.0					compressive	298	489	as cast
Co1.0Cr1.0Fe1.0Mn1.0Mo0.09Ni1.0					compressive	298	330	as cast
MoNbTaTiVW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	296	1515	as cast
MoNbTaTiVW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	873	973	as cast
MoNbTaTiVW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	1073	791.3	as cast
MoNbTaTiVW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	1273	752.8	as cast
MoNbTaTiVW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	1473	659	as cast
MoNbTaTiW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	296	1343	as cast
MoNbTaTiW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	873	689	as cast
MoNbTaTiW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	1073	674	as cast
MoNbTaTiW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	1273	620	as cast
MoNbTaTiW	2017	Intermetallics	Effect of Ti additions on mechanical properties of NbMoTaW and VNbMoTaW refractory high entro	10.1016/j.intermet.2017.01.(	compressive	1473	586	as cast
CrFeMoNbV					compressive	298	2663	as cast
Al0.5MoNbTiV	2013	Entropy	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys	https://doi.org/10.3390/e160	compressive	298	1625	as cast
CoCrFeMnMo0.14Ni					compressive	298	560	as cast
Al0.2MoTaTiV	2017	Materials Science Forum	Microstructure and Mechanical Properties of VTaTiMoAl_x Refractory High Entropy Al	10.4028/www.scientific.net/	compressive	298	1021	as cast
Al1.0CoCrFeMo0.5Ni	2010	Materials Science and Eng	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys		compressive	298	2757	as cast
Al0.6CoCr0.33Fe0.33Mo0.07Ni					compressive	298	1250.8	as cast
Co0.5Fe0.5Mo0.1NiV0.25					compressive	873	214	as cast
AlCoCrFeMo0.1Ni	2010	Materials Science and Eng	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys	10.1016/j.msea.2010.07.028	compressive	298	1804	as cast
AlCrFeMo0.5NiTi0.5					compressive	298	2228.7	as cast
AlCoCrFeMo0.3Ni					compressive	298	2649	as cast
MoNbTaTiW					compressive	1273	620	as cast
MoNbTaTiW					compressive	1073	674	as cast
MoNbTiV0.25Zr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1776	as cast
MoNbTiV0.5Zr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1647	as cast
MoNbTiV0.75Zr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1708	as cast
MoNbTiV1.5Zr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1735	as cast
MoNbTiV2Zr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1538	as cast

MoNbTiV3Zr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1418	as cast
MoNbTiZr	2012	JOM	Alloy Design and Properties Optimization of High-Entropy Alloys	10.1007/s11837-012-0366-5	compressive	298	1592	as cast
MoNbTaTiV					compressive	298	1400	as cast
AlMoNbTiV	2013	Entropy	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys	https://doi.org/10.3390/e160	compressive	298	1375	as cast
Co1.0Cr1.0Fe1.0Mn1.0Mo0.04Ni1.0					compressive	298	225	as cast
MoNbTaW					compressive	1273	548	as cast
Mo1.0Nb1.0Ta1.0Ti1.0V1.0W1.0					compressive	873	973	as cast
Al0.6Mo1.0Ta1.0Ti1.0V1.0	2017	Materials Science Forum	Microstructure and Mechanical Properties of VTaTiMoAl_x Refractory High Entropy Al	10.1016/j.dib.2018.10.071	compressive	298	962	as cast
Hf2.7Ta	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	298	1738	no
Hf13.8Ta5.2Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	298	1647	no
Hf3.81Ta1.43Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	298	1468	no
Hf2.76TaMo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	298	1496	no
Hf2.68TaMo1.58	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	298	1672	no
Hf2.7Ta	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1273	353	no
Hf13.8Ta5.2Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1273	451	no
Hf3.81Ta1.43Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1273	758	no
Hf2.76Ta1.0Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1273	943	no
Hf2.68Ta1.0Mo1.58	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1273	926	no
Hf2.7Ta	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1473	94	no
Hf13.8Ta5.2Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1473	101	no
Hf3.81Ta1.43Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1473	238	no
Hf2.76TaMo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1473	421	no
Hf2.68TaMo1.58	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1473	478	no
Hf2.7Ta	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1673	33	no
Hf13.8Ta5.2Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1673	32.7	no
Hf3.81Ta1.43Mo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1673	98	no
Hf2.76TaMo	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1673	146	no
Hf2.68TaMo1.58	2022	International Journal of Re	Effect of Mo on the microstructure and mechanical properties of (Hf0.73Ta0.27)100-XMoX (X = 0, 5	10.1016/j.ijrmhm.2021.1057	compressive	1673	225	no
Hf73Ta27	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1273	353	as cast
Hf73Ta27	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1473	94	as cast
Hf73Ta27	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1673	33	as cast
Hf73Ta27	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1873	18.8	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1273	943	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1473	421	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1673	146	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1873	64	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1273	278	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1473	118	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1673	60	as cast
Hf58Mo21Ta21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1873	23	as cast
Hf58Ta21W21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1273	480	as cast
Hf58Ta21W21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1473	137	as cast

Hf58Ta21W21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1673	77	as cast
Hf58Ta21W21	2021	International Journal of Re	High-temperature mechanical properties and oxidation behavior of Hf-27Ta and Hf-21Ta-21X (X is N	10.1016/j.ijrmhm.2020.1054	compressive	1873	28.3	as cast
MoNbRe0.5W	2019	Journal of Alloys and Com	Microstructure evolution, mechanical properties and strengthening mechanism of refractory high-entr	10.1016/j.jallcom.2018.11.1	compressive	298	896	as cast
NbTaTiV	2016	Materials Science & Engin	NbTaV-(Ti,W) refractory high-entropy alloys: Experiments and modeling	10.1016/j.msea.2016.07.102	compressive	298	965	as cast
NbTaVW	2016	Materials Science & Engin	NbTaV-(Ti,W) refractory high-entropy alloys: Experiments and modeling	10.1016/j.msea.2016.07.102	compressive	298	1530	as cast
NbTaTiVW	2016	Materials Science & Engin	NbTaV-(Ti,W) refractory high-entropy alloys: Experiments and modeling	10.1016/j.msea.2016.07.102	compressive	298	1420	as cast
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	298	1108	no
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	298	1308	no
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	298	1373	no
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	973	667	no
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	1073	580	no
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	1173	540	no
NbTaTiV	2019	Journal of Alloys and Com	Microstructures and mechanical properties of ductile NbTaTiV refractory high entropy alloy prepared	10.1016/j.jallcom.2018.10.2	compressive	1273	437	no
TiZrHfNbTa	2022	Journal of Alloys and Com	Microstructures and mechanical properties of TiZrHfNbTaWx refractory high entropy alloys	10.1016/j.jallcom.2022.1651	compressive	298	1064	
TiZrHfNbTaW0.25	2022	Journal of Alloys and Com	Microstructures and mechanical properties of TiZrHfNbTaWx refractory high entropy alloys	10.1016/j.jallcom.2022.1651	compressive	298	1135	
TiZrHfNbTaW0.5	2022	Journal of Alloys and Com	Microstructures and mechanical properties of TiZrHfNbTaWx refractory high entropy alloys	10.1016/j.jallcom.2022.1651	compressive	298	1278	
TiZrHfNbTaW0.75	2022	Journal of Alloys and Com	Microstructures and mechanical properties of TiZrHfNbTaWx refractory high entropy alloys	10.1016/j.jallcom.2022.1651	compressive	298	1450	
TiZrHfNbTaW	2022	Journal of Alloys and Com	Microstructures and mechanical properties of TiZrHfNbTaWx refractory high entropy alloys	10.1016/j.jallcom.2022.1651	compressive	298	1726	
NbTaTi	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	298	724	
NbTaTi	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	673	469	
NbTaTi	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	873	341	
NbTaTi	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	1073	268	
NbTaTi	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	1273	201	
NbTaTi	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	1473	129	
NbTaZr	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	298	1027	
NbTaZr	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	673	865	
NbTaZr	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	873	795	
NbTaZr	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	1073	530	
NbTaZr	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	1273	319	
NbTaZr	2021	Journal of Alloys and Com	Microstructure, mechanical properties and oxidation behavior of NbTaTi and NbTaZr refractory alloy	10.1016/j.jallcom.2020.1580	compressive	1473	162	
NbMoTaW	2020	Journal of Alloys and Com	Microstructure and mechanical properties of RexNbMoTaW highentropy alloys prepared by arc melti	10.1016/j.jallcom.2020.1543	compressive	298	1121	as cast
TiZrNbV	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1104	
TiZrNbVMo0.3	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1289	
TiZrNbVMo0.5	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1473	
TiZrNbVMo0.7	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1706	
TiZrNbVMo1	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1779	
TiZrNbVMo1.3	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1496	
TiZrNbVMo1.5	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1603	
TiZrNbVMo1.7	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1645	
TiZrNbVMo2	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1765	
TiZrNbV0.3	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	866	
TiZrNbV0.3Mo0.1	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	932	

TiZrNbV0.3Mo0.3	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1312	
TiZrNbV0.3Mo0.5	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1301	
TiZrNbV0.3Mo0.7	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1436	
TiZrNbV0.3Mo1.0	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1455	
TiZrNbV0.3Mo1.3	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1603	
TiZrNbV0.3Mo1.5	2015	Materials & Design	Phase composition and solid solution strengthening effect in TiZrNbMoV high-entropy alloys	10.1016/j.matdes.2015.06.0	compressive	298	1576	
NbTaTiV	2012	Procedia Eng	Microstructure and Compressive Properties of NbTiVTaAlx High Entropy Alloys	10.1016/j.proeng.2012.03.0	compressive	298	1092	as cast
MoNbTaV	2016	Entropy	MoNbTaV Medium-Entropy Alloy	10.3390/e18050189	compressive	298	1525	as cast
Ti38V15Nb23Hf24	2020	Nature Materials	Natural-mixing guided design of refractory high-entropy alloys with as-cast tensile ductility	10.1038/s41563-020-0750-4	tensile	298	774	as cast
CrTaTi	2023	Journal of Alloys and Com	The as-cast AlxCrTaTi refractory medium entropy alloys with good room-temperature mechanical pr	10.1016/j.jallcom.2022.167	compressive	298	1498	as cast
Al0.15CrTaTi	2023	Journal of Alloys and Com	The as-cast AlxCrTaTi refractory medium entropy alloys with good room-temperature mechanical pr	10.1016/j.jallcom.2022.167	compressive	298	1541	as cast
Al0.25CrTaTi	2023	Journal of Alloys and Com	The as-cast AlxCrTaTi refractory medium entropy alloys with good room-temperature mechanical pr	10.1016/j.jallcom.2022.167	compressive	298	1669	as cast
Al0.35CrTaTi	2023	Journal of Alloys and Com	The as-cast AlxCrTaTi refractory medium entropy alloys with good room-temperature mechanical pr	10.1016/j.jallcom.2022.167	compressive	298	1780	as cast
Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	298	843	as cast
Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	873	663	as cast
Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	1073	378	as cast
Al0.2Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	298	1216	as cast
Al0.2Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	873	930	as cast
Al0.2Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	1073	408	as cast
Al0.4Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	298	1663	as cast
Al0.4Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	873	1415	as cast
Al0.4Nb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	1073	518	as cast
Al0.6Nb0.5TiVZr	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	298	1727	as cast
Al0.6Nb0.5Ti1.0V2.0Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	873	1390	as cast
Al0.6Nb0.5Ti1.0V2.0Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	1073	596	as cast
Al0.8Nb0.5Ti1.0V2.0Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	298	1723	as cast
Al0.8Nb0.5Ti1.0V2.0Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	873	1596	as cast
Al0.8Nb0.5Ti1.0V2.0Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	1073	1108	as cast
AlNb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	298	1695	as cast
AlNb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	873	1318	as cast
AlNb0.5TiV2Zr0.5	2023	Materials Science and Eng	Effect of Al on microstructure and mechanical properties of lightweight AlxNb0.5TiV2Zr0.5 refracto	10.1016/j.msea.2023.14462	compressive	1073	890	as cast
Zr7Ti6Nb4Al2Ta	2023	Intermetallics	Two novel Zr-rich refractory high-entropy alloys with excellent tensile mechanical properties	10.1016/j.intermet.2023.107	tensile	298	850	as cast
Zr7Ti6Nb4Al2V	2023	Intermetallics	Two novel Zr-rich refractory high-entropy alloys with excellent tensile mechanical properties	10.1016/j.intermet.2023.107	tensile	298	848	as cast
AlCr0.5NbTi4	2023	Journal of Materials Scien	Mechanical and tribological performance of AlCr0.5NbTa Ti4– (x = 0, 0.5, 1) refractory high-entropy	10.1016/j.jmst.2023.02.016	compressive	298	1098.41	as cast
AlCr0.5NbTi4	2023	Journal of Materials Scien	Mechanical and tribological performance of AlCr0.5NbTa Ti4– (x = 0, 0.5, 1) refractory high-entropy	10.1016/j.jmst.2023.02.016	compressive	1073	483.9	as cast
AlCr0.5NbTa0.5Ti3.5	2023	Journal of Materials Scien	Mechanical and tribological performance of AlCr0.5NbTa Ti4– (x = 0, 0.5, 1) refractory high-entropy	10.1016/j.jmst.2023.02.016	compressive	298	863.35	as cast
AlCr0.5NbTa0.5Ti3.5	2023	Journal of Materials Scien	Mechanical and tribological performance of AlCr0.5NbTa Ti4– (x = 0, 0.5, 1) refractory high-entropy	10.1016/j.jmst.2023.02.016	compressive	1073	580.43	as cast
AlCr0.5NbTaTi3	2023	Journal of Materials Scien	Mechanical and tribological performance of AlCr0.5NbTa Ti4– (x = 0, 0.5, 1) refractory high-entropy	10.1016/j.jmst.2023.02.016	compressive	298	999.52	as cast
AlCr0.5NbTaTi3	2023	Journal of Materials Scien	Mechanical and tribological performance of AlCr0.5NbTa Ti4– (x = 0, 0.5, 1) refractory high-entropy	10.1016/j.jmst.2023.02.016	compressive	1073	676.88	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	298	790	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	873	898	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	1073	872	as cast

Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	298	544	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	873	706	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	1073	660	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	298	81	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	873	110	as cast
Al0.5NbTi3V0.5Zr2	2023	Journal of Materials Resea	Microstructure and properties of Al0.5NbTi3VxZr2 refractory high entropy alloys combined with hig	10.1016/j.jmrt.2023.03.103	compressive	1073	99	as cast
TiZrHfNb	2022	Journal of Alloys and Com	Novel Ti-Zr-Hf-Nb-Fe refractory high-entropy alloys for potential biomedical applications	10.1016/j.jallcom.2022.164	compressive	298	750	as cast
TiZrHfNbFe0.25	2022	Journal of Alloys and Com	Novel Ti-Zr-Hf-Nb-Fe refractory high-entropy alloys for potential biomedical applications	10.1016/j.jallcom.2022.164	compressive	298	1100	as cast
TiZrHfNbFe0.5	2022	Journal of Alloys and Com	Novel Ti-Zr-Hf-Nb-Fe refractory high-entropy alloys for potential biomedical applications	10.1016/j.jallcom.2022.164	compressive	298	1450	as cast
TiZrHfNbFe	2022	Journal of Alloys and Com	Novel Ti-Zr-Hf-Nb-Fe refractory high-entropy alloys for potential biomedical applications	10.1016/j.jallcom.2022.164	compressive	298	1500	as cast
Al0.8Nb0.5Ti2V2Zr0.5	2022	Materials Letters	A lightweight Al0.8Nb0.5Ti2V2Zr0.5 refractory high entropy alloy with high specific yield strength	10.1016/j.matlet.2022.13314	compressive	298	1418	as cast
Al0.8Nb0.5Ti2V2Zr0.5	2022	Materials Letters	A lightweight Al0.8Nb0.5Ti2V2Zr0.5 refractory high entropy alloy with high specific yield strength	10.1016/j.matlet.2022.13314	compressive	873	931	as cast
Al0.8Nb0.5Ti2V2Zr0.5	2022	Materials Letters	A lightweight Al0.8Nb0.5Ti2V2Zr0.5 refractory high entropy alloy with high specific yield strength	10.1016/j.matlet.2022.13314	compressive	1073	760	as cast
TiZrNbMoTa0.7	2023	Journal of Alloys and Com	Microstructure and mechanical properties of Alx(TiZrTa0.7NbMo) refractory high-entropy alloys	10.1016/j.jallcom.2023.1707	compressive	298	1349	
Al0.1TiZrNbMoTa0.7	2023	Journal of Alloys and Com	Microstructure and mechanical properties of Alx(TiZrTa0.7NbMo) refractory high-entropy alloys	10.1016/j.jallcom.2023.1707	compressive	298	1598	
Al0.2TiZrTa0.7NbMo	2023	Journal of Alloys and Com	Microstructure and mechanical properties of Alx(TiZrTa0.7NbMo) refractory high-entropy alloys	10.1016/j.jallcom.2023.1707	compressive	298	1651	
Al0.3TiZrTa0.7NbMo	2023	Journal of Alloys and Com	Microstructure and mechanical properties of Alx(TiZrTa0.7NbMo) refractory high-entropy alloys	10.1016/j.jallcom.2023.1707	compressive	298	1788	
Al0.4TiZrTa0.7NbMo	2023	Journal of Alloys and Com	Microstructure and mechanical properties of Alx(TiZrTa0.7NbMo) refractory high-entropy alloys	10.1016/j.jallcom.2023.1707	compressive	298	1858	
Al0.5TiZrTa0.7NbMo	2023	Journal of Alloys and Com	Microstructure and mechanical properties of Alx(TiZrTa0.7NbMo) refractory high-entropy alloys	10.1016/j.jallcom.2023.1707	compressive	298	1984	
Hf6Nb5Ta5Ti3Mo	2022	Materials Science and Eng	A novel Hf30Nb25Ta25Ti15Mo5 refractory high entropy alloy with excellent combination of strengtl	10.1016/j.msea.2022.144035	compressive	298	964	as cast
Hf9Co9NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	298	640	as cast
Hf9Co9NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	1073	460	as cast
Hf9Co9NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	298	1340	no
Hf9Co9NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	1073	645	no
Hf3Co3NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	298	1155	as cast
Hf3Co3NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	1073	780	as cast
Hf3Co3NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	298	1490	no
Hf3Co3NbMo	2023	International Journal of Re	Thermal stability of (HfCo)90(NbMo)10 and (HfCo)75(NbMo)25 refractory high entropy alloys with	10.1016/j.ijrmhm.2023.1062	compressive	1073	865	no
AlNbTiZr	2018	Materials Science and Tecl	Microstructure and mechanical properties of a novel refractory AlNbTiZr high-entropy alloy	10.1080/02670836.2018.144	compressive	298	1509	as cast
AlNbTiZr	2018	Materials Science and Tecl	Microstructure and mechanical properties of a novel refractory AlNbTiZr high-entropy alloy	10.1080/02670836.2018.144	compressive	298	1579	
Al0.25NbTaTiV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1330	as cast
Al0.25TaTiV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1021	as cast
Al0.5CrNbTiV0.5	2017	Stepanov	Precipitation-strengthened refractory Al0.5CrNbTi2V0.5 high entropy alloy	Stepanov	compressive	298	1240	as cast
Al0.2HfNbTaTiZr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1302	as cast
Al0.5NbTaTiV	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1012	as cast
AlNbTaTiV	2012	Procedia Engineering	Microstructure and Compressive Properties of NbTiVTaAlx High Entropy Alloys	10.1016/j.proeng.2012.03.04	compressive	298	991	as cast
Al0.75Mo1.0Nb1.0Ti1.0V1.0	2013	Entropy	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys	https://doi.org/10.3390/e160	compressive	298	1260	as cast
Al1.5Mo1.0Nb1.0Ti1.0V1.0	2013	Entropy	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys	https://doi.org/10.3390/e160	compressive	298	500	as cast
AlHfNbTaTiZr	2018	Journal of Alloys and Com	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloy	https://doi.org/10.1016/j.jall	compressive	298	1489	as cast
Al0.3HfNbTaTiZr	2018	Journal of Alloys and Com	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloy	https://doi.org/10.1016/j.jall	compressive	298	1188	as cast
Al0.5HfNbTaTiZr	2018	Journal of Alloys and Com	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloy	https://doi.org/10.1016/j.jall	compressive	298	1302	as cast
Al0.75HfNbTaTiZr	2018	Journal of Alloys and Com	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloy	https://doi.org/10.1016/j.jall	compressive	298	1415	as cast

HfNbTaTiZr	2018	Journal of Alloys and Com	Effect of Al addition on mechanical properties and microstructure of refractory AlxHfNbTaTiZr alloy	https://doi.org/10.1016/j.jall	compressive	298	1073	as cast
AlMoTaTiV	2018	Materials Science Forum	Microstructure and Mechanical Properties of VTaTiMoAlx Refractory High Entropy Alloys	10.4028/www.scientific.net/	compressive	298	735	as cast
CoCrMoNb	2017	Journal of Materials Engin	Microstructure and Mechanical Properties of a Refractory CoCrMoNbTi High-Entropy Alloy	https://doi.org/10.1007/s116	compressive	298	1419.6	as cast
CoCrMoNbTi1.0	2017	Journal of Materials Engin	Microstructure and Mechanical Properties of a Refractory CoCrMoNbTi High-Entropy Alloy	https://doi.org/10.1007/s116	compressive	298	1096.8	as cast
CoCrMoNbTi0.2	2017	Journal of Materials Engin	Microstructure and Mechanical Properties of a Refractory CoCrMoNbTi High-Entropy Alloy	https://doi.org/10.1007/s116	compressive	298	1905.6	as cast
CoCrMoNbTi0.4	2017	Journal of Materials Engin	Microstructure and Mechanical Properties of a Refractory CoCrMoNbTi High-Entropy Alloy	https://doi.org/10.1007/s116	compressive	298	1771.3	as cast
CoCrMoNbTi0.5	2017	Journal of Materials Engin	Microstructure and Mechanical Properties of a Refractory CoCrMoNbTi High-Entropy Alloy	https://doi.org/10.1007/s116	compressive	298	1609.2	as cast
Hf0.4Nb1.54Ta1.54Ti0.89Zr0.64	2018	Philos. Mag.	Plastic deformation properties of Zr-Nb-Ti-Ta-Hf high-entropy alloys	https://doi.org/10.1080/1478	compressive	298	822	as cast
Hf0.4Nb1.54Ta1.54Ti0.89Zr0.64	2018	Philos. Mag.	Plastic deformation properties of Zr-Nb-Ti-Ta-Hf high-entropy alloys	https://doi.org/10.1080/1478	compressive	573	590	as cast
Hf0.4Nb1.54Ta1.54Ti0.89Zr0.64	2018	Philos. Mag.	Plastic deformation properties of Zr-Nb-Ti-Ta-Hf high-entropy alloys	https://doi.org/10.1080/1478	compressive	373	765	as cast
Hf0.4Nb1.54Ta1.54Ti0.89Zr0.64	2018	Philos. Mag.	Plastic deformation properties of Zr-Nb-Ti-Ta-Hf high-entropy alloys	https://doi.org/10.1080/1478	compressive	333	795	as cast
Hf0.5Mo0.5Nb1.0Ti1.0Zr1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1176	as cast
Hf0.5Mo0.5Nb1.0Ti1.0Zr1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1150	as cast
Hf1.0Mo0.5Nb1.0Ti1.0V0.5	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1470	60	as cast
Hf1.0Nb1.0Ta1.0Ti1.0Zr1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	905	as cast
Hf1.0Nb1.0Ta1.0Ti1.0Zr1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	890	as cast
HfNbTaTiZr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	tensile	298	828	as cast
HfNbTaTiZr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	tensile	298	827	as cast
HfNbTaTiZr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	tensile	298	820	as cast
HfNbTaTiZr	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	tensile	298	803	as cast
Mo1.0Nb1.0Ta1.0Ti0.25W1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1109	as cast
Mo1.0Nb1.0Ta1.0Ti0.5W1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1211	as cast
Mo1.0Nb1.0Ta1.0Ti0.75W1.0	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	1304	as cast
Mo1.0Nb1.0Ti1.0V1.0	2013	Entropy	Microstructures and Crackling Noise of AlxNbTiMoV High Entropy Alloys	https://doi.org/10.3390/e160	compressive	298	1200	as cast
Mo1.0Ta1.0Ti1.0V1.0	2017	MSF	Microstructure and Mechanical Properties of VTaTiMoAl_x Refractory High Entropy Al	10.1016/j.dib.2018.10.071	compressive	298	1221	as cast
Ta23.75Nb23.75Zr23.75Ti23.75Al5	2017	MSF	Microstructures and mechanical properties of Ta–Nb–Zr–Ti–Al refractory high entropy alloys with va	10.1007/s42864-021-00111-	compressive	298	1304	no
Ta19Nb23.75Zr23.75Ti28.5Al5	2017	MSF	Microstructures and mechanical properties of Ta–Nb–Zr–Ti–Al refractory high entropy alloys with va	10.1007/s42864-021-00111-	compressive	298	1112	no
Ta14.25Nb23.75Zr23.75Ti33.25Al5	2017	MSF	Microstructures and mechanical properties of Ta–Nb–Zr–Ti–Al refractory high entropy alloys with va	10.1007/s42864-021-00111-	compressive	298	973	no
Ta23.75Nb23.75Zr23.75Ti23.75Al5	2017	MSF	Microstructures and mechanical properties of Ta–Nb–Zr–Ti–Al refractory high entropy alloys with va	10.1007/s42864-021-00111-	compressive	298	1762	no
Ta19Nb23.75Zr23.75Ti28.5Al5	2017	MSF	Microstructures and mechanical properties of Ta–Nb–Zr–Ti–Al refractory high entropy alloys with va	10.1007/s42864-021-00111-	compressive	298	1509	no
Ta14.25Nb23.75Zr23.75Ti33.25Al5	2017	MSF	Microstructures and mechanical properties of Ta–Nb–Zr–Ti–Al refractory high entropy alloys with va	10.1007/s42864-021-00111-	compressive	298	1243	no
Al0.25CoFeNi					compressive	298	158	as cast
Al0.25CoCrCu0.75FeNiTi0.5					compressive	298	750	as cast
CoCrCuFeNiTi0.5					compressive	298	700	as cast
AlCuFeNiTi					compressive	298	1074	as cast
CoCrCuFeNiTi					compressive	298	1274	as cast
CoFeNi	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	compressive	298	204	as cast
CoFeNi	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	tensile	298	211	as cast
Co1.0Fe1.0Ni1.0Si0.25	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	compressive	298	196	as cast
Co1.0Fe1.0Ni1.0Si0.5	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	compressive	298	1301	as cast
Al0.25Co1.0Fe1.0Ni1.0	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	compressive	298	158	as cast
Al0.5Co1.0Fe1.0Ni1.0	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	compressive	298	346	as cast

Al0.75Co1.0Fe1.0Ni1.0	2014	Journal of Magnetism and	Effects of Al and Si addition on the structure and properties of CoFeNi equal atomic ratio alloy	10.1016/j.jmmm.2014.07.0	compressive	298	794	as cast
Co1.0Fe1.0Ni1.0Cr1.0Ti1.0					compressive	298		as cast
AlCoCrNiFe					compressive	298	1251	as cast
AlCoCrNiFe	2010	Materials Science and Eng	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys		compressive	298	1051	as cast
AlCoCrNiFe					compressive	298	1110	as cast
AlCoCrNiFe					compressive	298	1138	as cast
AlCoCrNiFe					compressive	298	1373	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Mo0.2	2010	Materials Science and Eng	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys		compressive	298	2456	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Mo0.3	2010	Materials Science and Eng	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys		compressive	298	2649	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Mo0.4	2010	Materials Science and Eng	Microstructures and compressive properties of multicomponent AlCoCrFeNiMox alloys		compressive	298	2670	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Si0.2					compressive	298	1265	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Si0.4					compressive	298	1481	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Si0.6					compressive	298	1834	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Si0.8					compressive	298	2179	as cast
Al1.0Co1.0Cr1.0Fe1.0Ni1.0Si1.0					compressive	298	1110	as cast
Co1.0Cr1.0Cu1.0Fe1.0Mn1.0Ni1.0Ti1.0V1.0					compressive	298	1312	as cast
Cu3.0Mn3.0Ni3.0Al1.0					compressive	298	515	as cast
Cu31.6Mn31.6Ni31.6Al5					compressive	298	330	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	298	1620	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	773	1120	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	873	805	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	973	567	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1173	214	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1073	302	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1273	116	as cast
Al2CoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1373	79	as cast
AlCoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	298	948	as cast
AlCoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	873	561	as cast
AlCoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	973	307	as cast
AlCoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1073	172	as cast
AlCoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1173	98	as cast
AlCoCrCuFeNi	2005	Mechanical performance o	Mechanical performance of the Al x CoCrCuFeNi high-entropy alloy system with multiprincipal elem	https://link.springer.com/arti	compressive	1273	47	as cast
AlCrMoNbTi	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	673	1080	as cast
AlCrMoNbTi	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	873	1060	as cast
AlCrMoNbTi	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1073	860	as cast
AlCrMoNbTi	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1273	594	as cast
AlCrMoNbTi	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1473	105	as cast
AlNbTiZr(MoTa)0.5	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	298	2000	no
AlNbTiZr(MoTa)0.5	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1073	1597	no
AlNbTiZr(MoTa)0.5	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1273	745	no
AlNbTiZr(MoTa)0.5	2018	Data in Brief	Comprehensive data compilation on the mechanical properties of refractory high-entropy alloys	10.1016/j.dib.2018.10.071	compressive	1473	250	no
Al0.7Co0.3Cr1.0Fe1.0Ni1.0					compressive	298	2033	as cast

Nb0.18Ta0.26Ti0.22V0.21W0.13	2024	Materials design	Machine learning-assisted design of refractory high-entropy alloys with targeted yield strength and fra	https://doi.org/10.1016/j.mat	compressive	298	945	as cast
Nb0.22Ta0.22Ti0.24V0.23W0.09	2024	Materials design	Machine learning-assisted design of refractory high-entropy alloys with targeted yield strength and fra	https://doi.org/10.1016/j.mat	compressive	298	1915	as cast
Nb1.0Ta1.0Ti1.0V1.0W1.0	2024	Materials design	Machine learning-assisted design of refractory high-entropy alloys with targeted yield strength and fra	https://doi.org/10.1016/j.mat	compressive	298	1689	as cast
Nb0.24Ta0.22Ti0.26V0.04W0.24	2024	Materials design	Machine learning-assisted design of refractory high-entropy alloys with targeted yield strength and fra	https://doi.org/10.1016/j.mat	compressive	298	1983	as cast
Nb0.26Ta0.24Ti0.21V0.24W0.05	2024	Materials design	Machine learning-assisted design of refractory high-entropy alloys with targeted yield strength and fra	https://doi.org/10.1016/j.mat	compressive	298	1188	as cast
Cu3Mn3Ni3Al1					compressive	298	515	as cast
Zr0.24Nb0.29Ti0.09Hf0.2Ta0.18					compressive	1273	714	as cast
Zr0.24Nb0.29Ti0.09Hf0.2Ta0.18					compressive	298		as cast
Zr0.23Nb0.28Ti0.14Hf0.15Ta0.2					compressive	1273	894	as cast
Zr0.19Nb0.26Ti0.2Hf0.16Ta0.19					compressive	1273	974	as cast
Zr0.13Nb0.27Ti0.26Hf0.13Ta0.21					compressive	1273	1064	as cast
Al0.23Ti0.18Zr0.12Cr0.13Nb0.19Mo0.15					compressive	1273	617	as cast
Al0.23Ti0.18Zr0.12Cr0.13Nb0.19Mo0.15					compressive	298		as cast
Zr0.22Nb0.22Mo0.14Hf0.22Ta0.2					compressive	1273	717	as cast
Zr0.22Nb0.22Mo0.14Hf0.22Ta0.2					compressive	298		as cast
Ti0.18Zr0.1Nb0.21Mo0.1Hf0.21Ta0.2					compressive	1273	550	as cast
Ti0.18Zr0.1Nb0.21Mo0.1Hf0.21Ta0.2					compressive	298		as cast
Zr0.23Nb0.23Mo0.11Hf0.23Ta0.2					compressive	1273	663	as cast
Zr0.23Nb0.23Mo0.11Hf0.23Ta0.2					compressive	298		as cast
V0.2Cr0.21Nb0.17Mo0.21Hf0.21					compressive	1273	548	as cast
V0.2Cr0.21Nb0.17Mo0.21Hf0.21					compressive	298		as cast
Ti0.26V0.22Zr0.26Nb0.26					compressive	1273	59	as cast
Ti0.26V0.22Zr0.26Nb0.26					compressive	298		as cast
Al0.15Ti0.14Zr0.22Cr0.12Nb0.22Ta0.15					compressive	1273	366	as cast
Al0.15Ti0.14Zr0.22Cr0.12Nb0.22Ta0.15					compressive	298		as cast
Al0.18Ti0.18Zr0.12Cr0.14Nb0.2Mo0.18					compressive	1273	552	as cast
Al0.18Ti0.18Zr0.12Cr0.14Nb0.2Mo0.18					compressive	298		as cast
Zr0.21Nb0.2Mo0.16Hf0.23Ta0.2					compressive	1273	710	as cast
Zr0.21Nb0.2Mo0.16Hf0.23Ta0.2					compressive	298		as cast
Ti0.18Zr0.21Nb0.2Hf0.23Ta0.18					compressive	1273	188	as cast
Ti0.18Zr0.21Nb0.2Hf0.23Ta0.18					compressive	298		as cast
Ti0.17Zr0.18Nb0.18Mo0.1Hf0.2Ta0.17					compressive	1273	433	as cast
Ti0.17Zr0.18Nb0.18Mo0.1Hf0.2Ta0.17					compressive	298		as cast
Zr0.19Nb0.23Mo0.2Hf0.18Ta0.2					compressive	1273	958	as cast
Zr0.19Nb0.23Mo0.2Hf0.18Ta0.2					compressive	298		as cast
Al0.17Ti0.19Zr0.11Cr0.13Nb0.2Mo0.2					compressive	1273	890	as cast
Al0.17Ti0.19Zr0.11Cr0.13Nb0.2Mo0.2					compressive	298		as cast
Al0.14Ti0.2Zr0.07Cr0.19Nb0.2Mo0.2					compressive	1273	745	as cast
Al0.14Ti0.2Zr0.07Cr0.19Nb0.2Mo0.2					compressive	298		as cast
Al0.06Ti0.16Zr0.21Nb0.18Hf0.26Ta0.13					compressive	1273	104	as cast
Al0.06Ti0.16Zr0.21Nb0.18Hf0.26Ta0.13					compressive	298		as cast
Zr0.21Nb0.26Mo0.14Hf0.19Ta0.2					compressive	1273	870	as cast

Zr0.21Nb0.26Mo0.14Hf0.19Ta0.2					compressive	298		as cast
Zr0.17Nb0.25Mo0.22Hf0.16Ta0.2					compressive	1273	892	as cast
Zr0.17Nb0.25Mo0.22Hf0.16Ta0.2					compressive	298		as cast
Zr0.15Nb0.31Mo0.23Hf0.14Ta0.17					compressive	1273	979	as cast
Zr0.15Nb0.31Mo0.23Hf0.14Ta0.17					compressive	298		as cast
Zr0.21Nb0.22Mo0.21Hf0.15Ta0.21					compressive	1273	998	as cast
Zr0.21Nb0.22Mo0.21Hf0.15Ta0.21					compressive	298		as cast
TiTaNbHfNi0.25					compressive	298		as cast
TiTaNbHfNi0.5					compressive	298		as cast
TiMoNbHfAl0.1Ni0.1					compressive	298		as cast
TiMoNbHfNi0.8					compressive	298		as cast
TiMoNbHfAl0.2Ni0.8					compressive	298		as cast
TiZrHfNb0.4					tensile	298	726	as cast
TiZrHfNb					tensile	298	677	as cast
Al4Cr1Nb20Ti35V5Zr35	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	298	782	as cast
Al4Cr1Nb20Ti35V5Zr35	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	873	550	as cast
Al4Cr1Nb20Ti35V5Zr35	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	1073	93	as cast
Al9Cr1Nb40Ti25V25	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	298	1040	as cast
Al9Cr1Nb40Ti25V25	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	873	680	as cast
Al9Cr1Nb40Ti25V25	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	1073	750	as cast
Al2Cr13Nb40Ti5V40	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	298	890	as cast
Al2Cr13Nb40Ti5V40	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	873	860	as cast
Al2Cr13Nb40Ti5V40	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	1073	780	as cast
Al1Cr9Nb35Ti5V40Zr10	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	298	1090	as cast
Al1Cr9Nb35Ti5V40Zr10	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	873	873	as cast
Al1Cr9Nb35Ti5V40Zr10	2024	Intermetallics	Machine learning assisted design of new ductile high-entropy alloys: Application to Al-Cr-Nb-Ti-V-Z	https://doi.org/10.1016/j.inte	compressive	1073	920	as cast
Al0.2Nb1Ta0.8Ti1.5V0.2Zr1					compressive	298	2035	as cast
Al0.3Nb1.0Ta0.8Ti1.4V0.2Zr1.3					compressive	298	1965	as cast
Al0.3Nb1.0Ta1.0Ti1.4Zr1.3					compressive	298	1965	as cast
Al0.4Hf0.6Nb1Ta1Ti1Zr1					compressive	298	1841	as cast
AlNb1.5Ta0.5Ti1.5Zr0.5					compressive	298	1280	as cast
AlMo0.5Nb1Ta0.5Ti1Zr1					compressive	298	2000	as cast
CrNbTiZr					compressive	298	1260	as cast
CrNbTi1ZrV					compressive	298	1289	as cast
Nb1Cr1Mo0.5Ta0.5Ti1Zr1					compressive	298	1595	as cast
TiZrHfNb	2018	Nature	Enhanced strength and ductility	10.1038/s41586-018-0685-y	tensile	298	750	as cast
TiZrHfNbO0.02	2018	Nature	Enhanced strength and ductility	10.1038/s41586-018-0685-y	tensile	298	1300	as cast
TiZrHfNbN0.02	2018	Nature	Enhanced strength and ductility	10.1038/s41586-018-0685-y	tensile	298	1110	as cast
TiZrNbHf	2021	MateTribology Internation	Effect of Al addition on the microstructure, mechanical and wear properties of TiZrNbHf refractory h	10.1016/j.triboint.2021.107(	compressive	298	310	as cast
Al0.25TiZrNbHf	2021	MateTribology Internation	Effect of Al addition on the microstructure, mechanical and wear properties of TiZrNbHf refractory high entropy alloys		compressive	298	442	as cast
Al0.5TiZrNbHf	2021	MateTribology Internation	Effect of Al addition on the microstructure, mechanical and wear properties of TiZrNbHf refractory high entropy alloys		compressive	298	802	as cast
Al0.75TiZrNbHf	2021	MateTribology Internation	Effect of Al addition on the microstructure, mechanical and wear properties of TiZrNbHf refractory high entropy alloys		compressive	298	957	as cast

AlTiZrNbHf	2021	MateTribology Internation	Effect of Al addition on the microstructure, mechanical and wear properties of TiZrNbHf refractory high entropy alloys		compressive	298	1245	as cast
CrNbTiZrAl0.25		Materials Letters		https://doi.org/10.1016/j.mat	compressive	298	1245	as cast
CrNbTiZrAl0.75		Materials Letters		https://doi.org/10.1016/j.mat	compressive	298	417	as cast
CrNbTiZrAl		Materials Letters		https://doi.org/10.1016/j.mat	compressive	298	610	as cast
CrNbTiZrAl1.25		Materials Letters		https://doi.org/10.1016/j.mat	compressive	298	450	as cast
NbZrTiTa		master	NbZrTiTa高熵合金的组织结构演变及结构释能特性研究		compressive	298	900	as cast
NbZrTiTaAl0.1		master	NbZrTiTa高熵合金的组织结构演变及结构释能特性研究		compressive	298	1301	as cast
NbZrTiTaAl0.2		master	NbZrTiTa高熵合金的组织结构演变及结构释能特性研究		compressive	298	1485	as cast
NbZrTiTaAl0.3		master	NbZrTiTa高熵合金的组织结构演变及结构释能特性研究		compressive	298	1588	as cast
NbZrTiTaAl0.4		master	NbZrTiTa高熵合金的组织结构演变及结构释能特性研究		compressive	298	1730	as cast
Ti4Nb4TaZr		Journal of Alloys and Com	Copper alloying to enhance the mechanical properties and oxidation resistance of ductile refractory hi	https://doi.org/10.1016/j.jall	compressive	298	686	as cast
(Ti4Nb4TaZr)99Cu1		Journal of Alloys and Com	Copper alloying to enhance the mechanical properties and oxidation resistance of ductile refractory hi	https://doi.org/10.1016/j.jall	compressive	298	870	as cast
(Ti4Nb4TaZr)98Cu2		Journal of Alloys and Com	Copper alloying to enhance the mechanical properties and oxidation resistance of ductile refractory hi	https://doi.org/10.1016/j.jall	compressive	298	893	as cast
Ti4Nb4TaZr		Journal of Alloys and Com	Copper alloying to enhance the mechanical properties and oxidation resistance of ductile refractory hi	https://doi.org/10.1016/j.jall	compressive	1073	360	as cast
(Ti4Nb4TaZr)99Cu1		Journal of Alloys and Com	Copper alloying to enhance the mechanical properties and oxidation resistance of ductile refractory hi	https://doi.org/10.1016/j.jall	compressive	1073	270	as cast
Zr7Ti7Nb4VAl		Scripta Materialia	Zr35Ti35Nb20V5Al5 refractory high entropy alloy designed for low-density, high specific strength a	https://doi.org/10.1016/j.scri	tensile	298		no
AlNb1.5TaTi4V2.5		Intermetallics	Achieving superior strength–ductility synergy in refractory high entropy alloy	https://doi.org/10.1016/j.inte	tensile	298	705	as cast
AlNb1.5TaTi4V2.5		Intermetallics	Achieving superior strength–ductility synergy in refractory high entropy alloy	https://doi.org/10.1016/j.inte	tensile	298	1103	as cast
AlNb1.5TaTi4V2.5		Intermetallics	Achieving superior strength–ductility synergy in refractory high entropy alloy	https://doi.org/10.1016/j.inte	tensile	298	960	V850
AlNb1.5TaTi4V2.5		Intermetallics	Achieving superior strength–ductility synergy in refractory high entropy alloy	https://doi.org/10.1016/j.inte	tensile	298	960	V950
NbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	573	no
NbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	220	no
AlNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	1151	unknown
AlNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	680	unknown
AlNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	473	750	unknown
HfNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	834	no
HfNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	472	no
MoNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	1211	no
MoNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	592	no
WNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	1056	no
WNbTaTi	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	596	no
MoNbTiCr	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	1631	no
MoNbTiCr	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	1062	no
MoNbTiCr	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	473		no
MoNbTiCr	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	1073		no
MoTaTiCr	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	293	1795	no
MoTaTiCr	2019	Acta	Solid-solution strengthening in refractory high entropy alloys	10.1016/j.actamat.2019.06.0	compressive	873	1166	no
Ti35V35Zr5W25	2025	Materials Science & Engin	Co-optimization of yield strength and compressive plasticity of high-entropy alloys by combining pha	10.1016/j.msea.2025.148527	compressive	298	1415	as cast
Ti35V35Zr5W25	2025	Materials Science & Engin	Co-optimization of yield strength and compressive plasticity of high-entropy alloys by combining pha	10.1016/j.msea.2025.148527	compressive	298	1476	as cast
Ti35V35Zr5W25	2025	Materials Science & Engin	Co-optimization of yield strength and compressive plasticity of high-entropy alloys by combining pha	10.1016/j.msea.2025.148527	compressive	298	1265	as cast
Fe35Ni29Co11Al12Ta3	2025	Nature			tensile	298	1700	no
TiVNbMo	2025	Journal of Materials Resea	Machine learning-assisted design of Ti–V–Nb–Mo refractory high-entropy alloys with higher ductilit	https://doi.org/10.1016/j.jmr	compressive	298	1200	as cast

Ti4V7Nb7Mo2	2025	Journal of Materials Resea	Machine learning-assisted design of Ti–V–Nb–Mo refractory high-entropy alloys with higher ductilit	https://doi.org/10.1016/j.jmr	compressive	298	1000	as cast
Ti7V7Nb2Mo4	2025	Journal of Materials Resea	Machine learning-assisted design of Ti–V–Nb–Mo refractory high-entropy alloys with higher ductilit	https://doi.org/10.1016/j.jmr	compressive	298	1020	as cast
Zr24Nb29Ti9Hf20Ta18	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	1273	714	as cast
Zr0.23Nb0.28Ti0.14Hf0.15Ta0.2	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	1273	894	as cast
Zr0.19Nb0.26Ti0.2Hf0.16Ta0.19	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	1273	974	as cast
Zr0.13Nb0.27Ti0.26Hf0.13Ta0.21	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	1273	1061	as cast
Ti325Nb347Mo328	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	1273	504	as cast
Zr24Nb29Ti9Hf20Ta18	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	298		as cast
Zr0.23Nb0.28Ti0.14Hf0.15Ta0.2	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	298		as cast
Zr0.19Nb0.26Ti0.2Hf0.16Ta0.19	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	298		as cast
Zr0.13Nb0.27Ti0.26Hf0.13Ta0.21	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	298		as cast
Ti0.325Nb0.347Mo0.328	2025	Engineering	Machine-Learning-Assisted Compositional Design of Refractory High-Entropy Alloys with Optimal S	https://doi.org/10.1016/j.eng	compressive	298		as cast
Ti17.5Nb17.5Zr13.5Ta15.5Mo17.5V	2025	Materials Today Communi	Accelerated Computational Design of a BCC Refractory High Entropy Alloys Using Metaheuristics, CALPHAD, and Artificial Ne		compressive	298	1570	no
CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	296	1260	no
CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	873	795	no
CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1073	440	no
CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1273	95	no
Al0.25CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	296	1095	no
Al0.25CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	873	1365	no
Al0.25CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1073	680	no
Al0.25CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1273	130	no
Al0.5CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	296	1630	no
Al0.5CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	873	1105	no
Al0.5CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1073	970	no
Al0.5CrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1273	265	no
AlCrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	296	850	no
AlCrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	873	620	no
AlCrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1073	1250	no
AlCrNbTiVZr	2016	Materials Characterization	Effect of Al content on structure and mechanical properties of the AlxCrNbTiVZr (x = 0; 0.25; 0.5; 1	https://doi.org/10.1016/j.mat	compressive	1273	305	no
Nb0.2Mo0.8Ta2WHf	2025	Journal of Alloys and Com	Novel high-density refractory high-entropy alloys with excellent mechanical properties at high temper	https://doi.org/10.1016/j.jall	compressive	298	1600	no
NbMoTaW	2025	Journal of Alloys and Com	Novel high-density refractory high-entropy alloys with excellent mechanical properties at high temper	https://doi.org/10.1016/j.jall	compressive	298	1150	no
Nb0.5Mo0.5TaWHf	2025	Journal of Alloys and Com	Novel high-density refractory high-entropy alloys with excellent mechanical properties at high temper	https://doi.org/10.1016/j.jall	compressive	298	1800	no
Nb0.5Mo0.5TaWHf	2025	Journal of Alloys and Com	Novel high-density refractory high-entropy alloys with excellent mechanical properties at high temper	https://doi.org/10.1016/j.jall	compressive	873	1047	no
Nb0.5Mo0.5TaWHf	2025	Journal of Alloys and Com	Novel high-density refractory high-entropy alloys with excellent mechanical properties at high temper	https://doi.org/10.1016/j.jall	compressive	1073	815	no
Nb0.5Mo0.5TaWHf	2025	Journal of Alloys and Com	Novel high-density refractory high-entropy alloys with excellent mechanical properties at high temper	https://doi.org/10.1016/j.jall	compressive	1273	675	no