

# Co-Mo (Cobalt-Molybdenum)

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The Co-Mo phase diagram in [Massalski2] was revised by [1999Dav], by assessing the phase diagram and thermodynamic data from numerous sources.

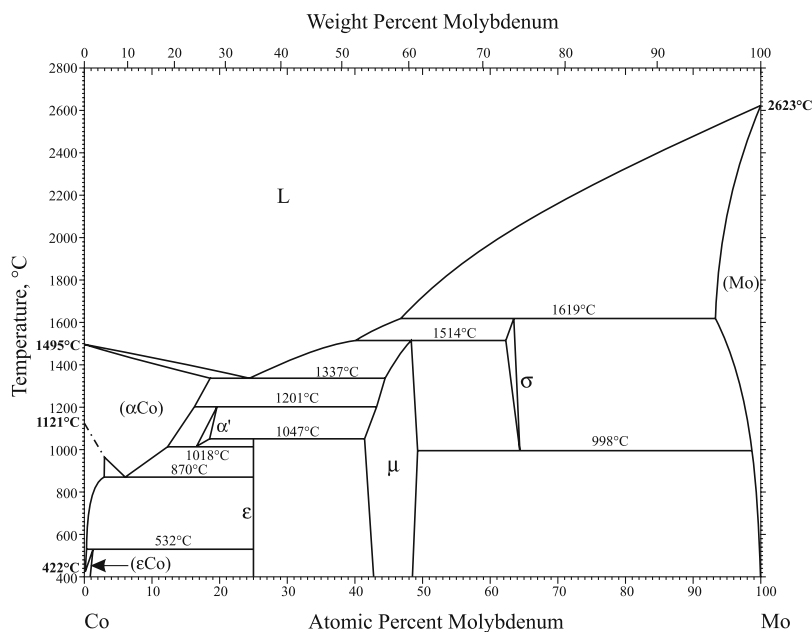
This phase diagram was modified by the same authors [2003Dav], as shown in Fig. 1.

Co-Mo crystal structure data are shown in Table 1.

## References

**1999Dav:** A. Davydov and U.R. Kattner, Thermodynamic Assessment of the Co-Mo System, *J. Phase Equilib.*, 1999, **20**(1), p 5-16

**2003Dav:** A. Davydov and U.R. Kattner, Revised Thermodynamic Description for the Co-Mo System, *J. Phase Equilib.*, 2003, **24**(3), p 209-211



**Fig. 1** Co-Mo phase diagram

**Table 1** Co-Mo crystal structure data

Phase	Composition, at.% Mo	Pearson symbol	Space group	Struktur-bericht designation	Prototype
(αCo)	0-19	<i>cF4</i>	<i>Fm<math>\bar{3}m</math></i>	<i>A1</i>	Cu
(εCo)	0-1	<i>hP2</i>	<i>P6<math>_3</math>/mmc</i>	<i>A3</i>	Mg
α'	16.5-19.5	<i>hP2</i>	<i>P6<math>_3</math>/mmc</i>	<i>A3</i>	Mg
ε	25	<i>hP8</i>	<i>P6<math>_3</math>/mmc</i>	<i>D0<math>_{19}</math></i>	Ni <sub>3</sub> Sn
μ	41.5-49	<i>hR13</i>	<i>R<math>\bar{3}m</math></i>	<i>D8<math>_5</math></i>	Fe <sub>7</sub> W <sub>6</sub>
σ	62-64.5	<i>tP30</i>	<i>P4<math>_2</math>/mnm</i>	<i>D8<math>_8</math></i>	σCrFe
(Mo)	93-100	<i>cI2</i>	<i>Im<math>\bar{3}m</math></i>	<i>A2</i>	W