

Version 5.0		Al alloys	Mg alloys	Cast irons	General steels	Stainless steels	Ni alloys	Co alloys	Ti alloys	Zr alloys	Solder alloys
Phase equilibria	Temperature stepping	√	√	√	√	√	√	√	√	√	√
	Concentration stepping	√	√	√	√	√	√	√	√	√	√
	Profiling/Coating	√	√	√	√	√	√	√	√	√	√
	Metastable phases	√	√	√	√	√	√	√	√	√	√
Thermo-physical and physical properties*	Specific heat / enthalpy	√	√	√	√	√	√	√	√	√	√
	Density / molar volume	√	√	√	√	√	√	√	√	√	√
	Thermal expansion coefficient	√	√	√	√	√	√	√	√	√	√
	Thermal conductivity	√	√	√	√	√	√	√	√	√	√
	Electrical conductivity/resistivity	√	√	√	√	√	√	√	√	√	√
	Surface tension	√	√	√	√	√	√	√	√	√	√
	Liquid viscosity/diffusivity	√	√	√	√	√	√	√	√	√	√
	Poisson's ratio	√	√	√	√	√	√	√	√	√	√
	Young's/shear/bulk moduli	√	√	√	√	√	√	√	√	√	√
	Stacking fault energy				√	√	√	√			
Gamma/Gamma' mismatch						√					
Solidification properties	Phases and physical properties	√	√	√	√	√	√	√	√	√	√
	Cooling curve	√	√	√	√	√	√	√	√	√	√
	Cast Strength	√		√							
	Secondary dendrite arm spacing	√									
Mechanical properties**	Room temp strength/hardness				√	√	√		√		
	High temp strength/hardness				√	√	√	√	√		
	Strength/hardness conversion				√	√	√		√		
	Room temp stress-strain curve				√	√	√		√		
	High temp stress-strain curve				√	√	√	√	√		
	Creep and rupture life				√	√	√	√	√		
	Rupture strength				√	√	√	√	√		
	Jominy hardenability				√						
Cast Strength	√		√								
Phase transformations	TTT/CCT diagram	√		√	√	√	√	√	√	√	
	Isothermal transformations	√			√	√	√	√	√	√	
	Energy changes			√	√	√	√		√		
	Cooling transformations				√	√			√		
	Martensite formation				√	√			√		
	Stress induced martensite				√	√					
	Quench and welding data				√						
	Simultaneous carbide precipitation				√						
	Gamma'/Gamma'' coarsening						√				
	Gamma' microstructure & strength						√				
Data export	Forging simulation data				√	√	√	√	√		
	Heat treatment simulation data				√						
	Solidification simulation	√	√	√	√	√	√	√	√	√	√

* These properties can be calculated during/after heat treatment or during solidification for the whole temperature range including in the liquid phase. When relevant, properties are given for each phase.

** Proof stress, tensile stress and hardness are calculated at any temperature up to the melting point.