



Aluminum Hardeners

Aluminum's mechanical and physical properties are enhanced with the use of alloying elements. These alloying elements are commonly referred to as hardeners. Aluminum based master alloys which contain the hardener elements in high concentrations, provide a convenient and economical way to add them to aluminum to achieve desired properties. These master alloys readily go into solution at lower liquid aluminum temperatures, thus minimizing dross formation and solubility of hydrogen. Lower furnace temperatures also mean reduced energy consumption and longer furnace life.

Aluminum Magnesium

Alloy	Composition Limits Maximum unless shown as a range				Aluminum Association Color Coding		Form	
25%Mg H2010	Mg	23-27	Si	0.1	Others Each	0.03	 1 Black / 1 Light Blue	Waffle Ingot
			Fe	0.15	Total	0.1		
50%Mg H2011	Mg	48-52	Si	0.1	Others Each	0.03	 1 Black / 1 Light Blue	Broken Ingot
			Fe	0.15	Total	0.1		
68%Mg	Mg	65-71	Si	0.1	Others Each	0.03	 1 Black / 1 Light Blue	Buttons Waffle Ingot Slab Ingot
			Fe	0.15	Total	0.1		