





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 Manganese

Alloy		Composition Limits Maximum unless shown as a range						Aluminum Association Color Coding	Form
25%Mn	H2425	Mn	24-26	Si	0.2	Others Each	0.03	 1 Purple	Slab Ingot
				Fe	0.25	Total	0.15		Waffle Ingot
60%Mn	H2461	Mn	58-64	Si	0.15	Others Each	0.03	 1 Purple	Flake (Splatter)
				Fe	0.25	Total	0.1		