

# Aluminium Vanadium



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

Used in the manufacture of various alloys, vanadium enhances strength, raises the recrystallisation temperature, and reduces the thermal expansion co-efficient.

Alloy	Designation	Color Code	V	Fe	Si	Others		Form
						Each	Total	
<b>5% V</b>	AA-H2605	■ ■	4.5-5.5%	0.30%	0.30%	0.04%	0.10%	Waffle ingot
<b>10% V</b>	AM-92300	■ ■	9.0-11.0%	0.30%	0.30%	0.04%	0.10%	Waffle ingot

*Composition is a maximum unless shown as a range.*