

## MATERIAL DATA SHEET

### Alloy Grade UNS: HV – Exceptional Strength



#### **OVERVIEW**

A nickel base alloy with tungsten addition that provides exceptional strength. This material also has good resistance to carburization and oxidation. Service limit 1165 degrees Celsius (2130 degrees Fahrenheit).



#### **TYPICAL USES**

Petrochemical furnaces (particularly in sections exposed to higher temperatures).



#### **GRADE 30-50W**



<b>SIMILAR SPECIFICATIONS</b>	<b>TYPICAL CHEMICAL COMPOSITION (% By Wt.)</b>	
	Aluminum: N/A	Nickel: 45 - 50
	Carbon: 0.50 - 0.60	Lead: N/A
	Chromium: 26 – 30	TIN: N/A
	Manganese: 1.5	Silicon: 2
	Iron: N/A	Zinc: N/A
	Copper: N/A	
	<b>Other: W 3.5 – 4.0</b>	



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## MINIMUM MECHANICAL PROPERTIES

Tensile, ksi

65



Yield, ksi

34



Tensile, MPa

450



Yield, MPa

235



Elongation

4%



**Heat Treatment:** Not Heat Treated