

Alloys Name		INCONEL625		
UNS Number	N06625	Density(g/cm <sup>3</sup> )		8.44
<b>Chemical Composition(%)</b>	Aluminum	0.4 max		
	Carbon	0.1 max		
	Chromium	20 - 23		
	Cobalt	1 max		
	Iron	5 max		
	Manganese	0.5 max		
	Molybdenum	8 - 10		
	Nickel	Balance		
	Niobium	3.15 - 4.15		
	Phosphorus	0.015 max		
	Silicon	0.5 max		
	Sulphur	0.015 max		
Titanium	0.4 max			
<b>Mechanical Property(Normal Temperature)</b>				
Condition	Tensile Strength 100psi(Mpa)	Yield Strength 100psi(Mpa)	Hardness Brinell (Rockwell)	
Annealed	135(930)	75(520)	180	
<b>Specification</b>	Microfer 6020 hMo(tm) VLX625(tm) Udimet 625(tm) Nickelvac 625(tm) HAYNES(r) 625 alloy Custom Age 625 Plus Alloy(tm) Chronin 625(tm) Altemp 625(tm) Pyromet Alloy 625(tm) Custom Age 625 +(tm) HAYNES(r) 625 alloy(tm) Microfer 6020(tm) Pyromet 625(tm) AMS 5581 AMS 5599 AMS 5666 AMS 5837 AMS 5879 ASTM B366 ASTM B443 ASTM B444 ASTM B446 ASTM B704 ASTM B705 DIN 2.4856 GE B50TF133 MIL E-21562 (RN625) UNS N06625			
<b>Description/Applications</b>	* High strength and toughness from cryogenic temperatures to 1800°F(1000°C), * Good oxidation resistance, exceptional fatigue strength, * Chemical and pollution control equipment, ash pit seals, nuclear reactors, marine equipment, ducting, thrust reverser assemblies, hot brine handling equipment, fuelnozzles, after burners, spray bars,			