

Alloys Name		INCOLOY 825		
UNS Number	N08825	Density(g/cm <sup>3</sup> )	8,14	
Chemical Composition(%)	Aluminum	0.2 max		
	Carbon	0.05 max		
	Chromium	19.5 - 23.5		
	Copper	1.5 - 3		
	Iron	Balance		
	Manganese	1 max		
	Molybdenum	2.5 - 3.5		
	Nickel	38 - 46		
	Phosphorus	0.03 max		
	Silicon	0.5 max		
	Sulphur	0.03 max		
	Titanium	0.6 - 1.2		
Mechanical Property(Normal Temperature)				
Condition	Tensile Strength 100psi(Mpa)	Yield Strength 100psi(Mpa)	Hardness Brinell (Rockwell)	
Annealed	65-95(450-660)	20-50(140-340)	100-184(B54-90)	
Specification	Sanicro 41(tm) Nicrofer 4221(tm) VLX825(tm) Cabvalloy alloy 825(tm) Nickelvac 825(tm) Cabvalloy 825(tm) ASTM B163 ASTM B423 ASTM B424 ASTM B425 ASTM B564 ASTM B704 ASTM B705 DIN 2.4858 UNS N08825			
Description/Applications	* Resists pitting an intergranular corrosion, * Excellent corrosion resistance in a wide variety of environments and applications, * Applications include nuclear industry, chemical, processing, hydrofluoric acid production, pollution control systems.			