

Cupronickel 715, C715, CuNi30

Alloy 715

Identification

VMI No.	715				
UNS No.	C71500				
Relevant Specifications	ASTM B122				
Similar to	Copper-Nickel 30%, Monel 450				
Forms	Strip	Wire	Bar	Sheet	
	*	*	*	*	
Description	Alloy 715 is a high-strength nickel copper alloy with excellent corrosion resistance, making it a great choice for marine applications as well as highly corrosive environments.				

Chemical Composition (%)

Copper	Remainder				
Nickel (+Cobalt)	29.0-33.0				
Iron	0.40-1.0				
Manganese	1.0 Max				
Zinc	1.0 Max				
Lead	0.05 Max				
n/a	n/a n/a				
n/a	n/a n/a				

Mechanical Properties (all values are for annealed temper; not intended for specification)

Tensile	55	ksi			
	380	MPa			
Yield	25	ksi			
	175	MPa			
Elongation	35	% in 2"			
	35	% in 50mm			
Hardness	47	HRB			
	90	Hv			

Physical Properties

Density	0.323 lb/in ³				
	8.93741 g/cm ³				
Resistivity (Nominal)	223 Ohm•circ mil/ft				
	37 microOhm•cm				
Coefficient of Thermal Expansion from 68°F (20°C) to	212°F	392°F	572°F	752°F	932°F
	100°C	200°C	300°C	400°C	500°C
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