

CuNi12Zn24 / CW403J / C75700 / NS104

Version 4

Reference standard: EN 12166

Symbol	Number	Element	Cu	Fe	Mn	Ni	Pb	Sn	Zn	Bal.	Densit y g/cm³
CuNi12Zn24	CW403J	Min %	63.0	-	-	11.0	-	-	Rem	-	8.7
		Max %	66.0	0.3	0.5	13.0	0.03	0.03	-	0.2	

Nickel silver (also known as Alpaca) contains copper, nickel and zinc and is a bright silver colour in appearance. Nickel Silver wire is manufactured in flat, round and square sections in a full range of sizes and tempers to meet customer requirements.

Typical Tensile Strength N/mm2										
Size Range	Soft	¼ Hard	½ Hard	Hard	Spring Hard					
0.1-0.5mm	430-530	520-620	620-730	730-850	850min					
0.5-1.5mm	400-510	480-580	580-680	680-800	800min					
1.5-4.0mm	370-480	460-560	560-660	660-780	780min					
4.0–8.0mm	-	-	530-630	630-750	-					
4.0–20.0mm	360-480	440-540	-	-	-					

Physical Properties:

Resistivity: 0.023 (Ω x mm²/m)
Melting Point: 1020 - 1065 ° C
Elongation at soft temper: >25%

Typical applications:

- Brush / anchor wire
- Resistance wire

Tolerances:



Chaplin Bros. (Birmingham) Limited Reddicap Trading Estate Sutton Coldfield West Midlands B75 7BU, England

Tel: +44(0)121 378 0565 Email: sales@chaplinwire.com

www.chaplinwire.com

